

SUPER CD!

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ID CARDS

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Silly Putty – a game that's seriously silly

Award winning innovative products from



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. Thru'port for printer · Award winning editing, image manipu-

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Epson GT-6000



. 600 DPI Colour flatbed scanner

24-bit colour

· A4 reading area Software included

Foson GT-6000 £999

Epson GT-8000 800 DPI colour flathed scanner 24-bit colour

· A4 reading area Software included

Epson GT-8000

Upgrade Offer If you consider your scanner system to be inferior to the Power Scanner, we will happily upgrade your software and inter-

Upgrade ...

Floppy Drives "This drive contains more gadgets than Batman's utility belt"

Amiga Computing Fph1992 PC880B Power Drive



· Award winning drive manufactured by Power Computing

Super slim design · Anti-click (Cures that annoving click)

· Built-in backup hardware PC880B with Blitz Amiga ... PC880R with Blitz & XConv €90 PC880B (Cyclone compatible)*£70 PC880B in black case£65

Power Drives £49.95 PC880E Economy drive PC881 A500 Internal drive £40.00 PC882 A2000 Internal drive£45.00

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Same features as PC880B Dual drive ...

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Blitz Amiga Backup disks at lightning speeds Stops all external drives from clicking · Contains anti-virus from being written

Blitz Amiga RAM Expansion

Blizzard Turbo A500/A500+ Expand up to 8MB (0K installed) Memory and 68000 CPU run at 14.28MHz

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into the bootblocker

£169 Blizzard Turbo

RAMs continued

A600 Memory Cards



1MB RAM with clock . 1MB RAM without clock £45 00 PC501+ RAM Card

Our RAM board is designed especially for the A500+ computer and comes with 1MB of RAM on board to expand your memory to 2MB of chip RAM. Plug-in and go operation (Fits into the trapdoor)

PC501+ BAM card £39.95 8MB for any A500

Plugs into side slot, fully auto config, full thru'port, Expand 2MB-8MB 2MB £109 4MB £169 8MB £289

£14.95 1 x 4ZIP chips 2MB for any A500 * Economy 2MB RAM externally cased

* 16-chip (1 x 1 DIP) No thru'nort 2MB RAM .

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(Keur Amica needs to be opened, this may effect your warrants)

1.5MB RAM board 1MB with Thru'port Expand your A500's memory up to a total of 2MB without disposing of your

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 One of the most advanced kickstart BOM sharers available A clever design on a small reliable

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24

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CM8833 Mk2

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A1500

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This month, alongside our unrivalled specialist Almanac columns and regular news, Updates and PD sections, you can discover the joys of 12-bit

prren Evans

Barbara Newell

andra Childs

60,177

sampling, see how the Amiga can be used in education, and get into print with the third part of our publishing series.

Our renowned ESP and ACAS write-back pages let you have your say, and the CoverDisk contains the usual winning mixture of games, utilities and

support files for the magazine proper. And should you be thinking of buying some thing, a glance at Amiga Mort will ensure that you know what you're getting and how much you should be paying for it.

It's the complete package, every month - it's Amiga Computing

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Published by Europeess Enterprise Ltd.
Europe House, Adlington Park, Macclesfield SKIQ 4NP

Tel: 0625 878888 Fex: 0625 87996 PUBLISHING DIRECTOR Richard Williams

Printed in the United Kingdom

REGULARS

Amiga Newsline

New machines are set to replace the A1500 and A2000 - we reveal all the juicy details.

IISA News The Amiga continues to struggle

Competition Your chance to win the complete

Scala graphics family in our fullyfeatured, multiple-bill compol See page 39

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A570 -FACTS, NOT F

The first review of the production version of Commodore's revolutionary CD-ROM drive



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Judging from the new additions, this powerful multimedia package is here to stay.



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Your chance to let us know about yourself, your Amiga, and what you think about Amiga Computing



Sometimes even the Amiga can benefit from 62 emulating its lesser contemporaries.

S SECURISE MEDIT OF YOUR Rides freferences | Rand Disk / SCST Freferences Serial / Farallel Preferences General Preferences feery Preferences for Rart friter II Goit

Amiga Digitiser

A highly useful colour accessory is put through its paces – RGB will never be the same again! 71

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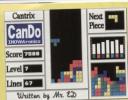
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AMIGA NEWSLINE AMIGA

by John Butters

EXCLUSIVE

Super Amigas due September

Amigas should be launched in Britain around the end of September, and that production of old mid-range models has already stopped. The A2200 - which might be renamed the A2400 - is an

A1500 and A2000 replacement and is powered by a 68020 processor, while the A4000 will take a seat at the top of the Amiga range. Like the A2200, the A4000 is rumoured to have 16-bit sound

and 256 colours on-screen. Models will be available with either a 68030 or 68040 processor, and buyers of the slower version will be able to upgrade should the need arise.

Commodore UK boss Kelly Sumner refused to comment on pricing except to say they will be "extremely competitive" has been rife for several months including an Amiga rumoured to be called A800 Classic

Sumner denies the firm plan to release the A800 and says that an entry-level machine with the new technology will not arrive before the end of next year.

He told our sister trade paper CTW: "I think it's very immature

for any manufacturer to release or leak product specifications

or rumours before they are in a position to market that

Swifter move from Citizen

OUIETER, easier and faster are the claims from printer giant Citizen on their new range of 24-pin dot matrix models.

The Swift 2 series consists of three machines - the Swift 200 Swift 240 and the colour Swift 240C. Each has an expandable 8k buffer and between six and nine letter quality fonts.

All offer a minimal noise level of 44 SdB a Command Vue Control Panel to make use easier and faster, a facility to allow four pages of text to be produced on the same A4 page and an auto-setup feature.

"The Swift 2 series offers all the benefits previously limited to nonimpact technology," claimed Citizen's Julie Haswell "It has quiet printing, scalable

fonts and in addition offers good quality colour output. We aim to continue building on the success of the Swift brand."

Less failures, more sales sav Commodore

THE INTRODUCTION of the A600 with Amigas now sold through High Street surface mount technology has slashed the entry-level Amiga failure rate from 8.5 to less than 1.5 per cent. Commodore

The figure is based on the first three months of A600 sales, during which time dealers were supplied with 60,000 computers and sold more than 12,000.

The manufacturer say they expect an increase in Amiga sales to 300,000 this year, despite trade expectations that the 16-bit home computer market will lose

multiples than small independents, 450 point of sale units will demonstrate the A600's capability in shops this This will be accompanied with an "aggressive" advertising campaign

> being put together by Laing Henry, the firm's newly appointed agency. Marketing manager Dawn Levack has asked for the campaign to push the expandability and flexibility of the Amiga, pointing out there's more than



A600 price down to £299

planned or could be afforded.

The company say the move here made possible by increase eliability of the Amiga and to leadon for a big name bundle late.

des, the price gap has been cle

ith "adult" software in time hristmas, which Sumner hint ould be a selection of strategy-ty

Amigas go to casualty

AMIGAS are behind a new information service which has just been admitted into 60 British hospitals for their accident and emergency waiting rooms.

Delivered by Manchester-based Medic Media and funded by local advertising. the system provides patients with hospital notices and information as well as news, weather and entertainment

Medic Media compile features which are transmitted overnight to Amigas at hospitals participating in the scheme and flexibility means that hospitals can add their own specific information Commodore's multimedia sales man-

ager, Tony Haley, said: "Medic Media is a company that understands how multimedia can be used effectively."

Eddie Newton of a participating hospital in Redhill, Surrey adds: "Hospitals are under increasing pressure not only to provide better service but also to generate extra funds. The Medic Media programme fulfils both of these needs admirably."

Fred Fish nacked onto CD

domain software.

Volume 2 of the Fred Fish
Collection would require 660 floppy
disks to hold all its programs and

. Hollender takes top sales job

as Sales Director.
Hollender joined Commodore as
Business Systems Sales Director in
October 1991 and had previously
been Regional General Manager for



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Presenting the point

For use with Amigas and CDTV.
AirMouse enables speakers to control presentations from up to ten
metres away and by using the two
mouse buttons and all normal functions are supported.
Developed by a US-based firm, it
is available in Britain from GB
International (0908-222233) for
£528.75.

from Felsina Software to Amiga software specialist New Horizons (010 1 512 328 The company have pledged to aggressively market and support the latest addition to their range. In the UK call Silica Systems on 081-309 1111.

New Naksha scanner zooms in

ANOTHER hadget-priced hand scanner is being aimed at Amiga users, this time from Naksha, the company best known for their replacement mouse

Supplied with Migraph Touch-Up software, the scanner has a resolution of between 200 and 400 dots per inch and has four

Dithered scanned images are converted to greyscale, it supports a variety of screen resolutions and has editing features for painting, drawing, special effects and scalable fonts.

Images can be previewed and inverted or made transparent. There are 36 fill patterns in 75, 150 and 300dpi, and a tool for cleaning stray white or black dots from the scan.

Costing £116.33, Naksha can be telephoned on 0925



Maksha break into scanner marke

Europress turn kids creative

CHILDREN will be able to exercise their creative talents in Paint and Create, an education package consisting of several programs due soon from Europress Software (0625

Art Alive is an art package where kids can create their own pictures, select pre-drawn pictures and add text or colour in an outlined image. A frightening monster can be developed in Make a Monster. Choosing from a variety

of heads, bodies, arms, legs and facial features, the result is measured with a scare-o-In ligsaw, pictures are split into between 12 and 120 pieces which can be rotated or flipped to make complex puzzles and in Music Maestro children are able to build a hand. Players and instruments can be selected before they are watched and listened to

Greeting cards for every occasion can be designed and produced in Card Shop. With a selection of seasonal pictures and messages, children can also draw freehand and type their own message.

"It offers children a wide-ranging selection of activities, some with a practical bias, some which are pure fun," said Europress Software boss Chris Payne "But they all have one thing in common. They have been specifically designed to

spark children's imagination and help them use it to achieve tangible results." Designed for children over five years old, it will cost £25.99.



PUBLISHING rights to communications software A-Talk III have been signed over

Channel 5 interference minimal says Mellor

ahead.

Some reports in other sections of
the computer press say the proposed
Channel 5 would transmit on frequencies close to the one used by

expect interference.

But according to computer and television experts few homes will be affected. They say signals from Channel 5 would be lost or become

Channel 5 would be lost or become very weak once the aerial is unplugged from the TV set to enable the computer to be connected. The Government admits there could be some problems. Minister for Fun David Mellor says: "Tests indicate that few will suffer interfer-

BSC give virtual memory

GIGAMEM is a "virtual memory system" being supplied free with BSC's (010 49 89 357 130 0) SCSI controllers and offered to existing owners at a reduced

Software-based it gives MMU-fitted Amigas one gigabyte of simulated memory. It costs DM149 for users of other controllers.

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Vortex go for golden emulation



longer available they have scrapped plans to release a 386 ver-

Aiming for

better spelling IMPROVING spelling is the aim of

Spelling Fair, a new package developed by Europress Software (0625 859333) after press reports revealed appalling literacy in British schools. The program is suitable for chil-

dren aged between seven and 13 years old and features six educational games, each with three difficulty levels. Said Europress Software boss

Chris Payne: "Over the last few weeks it has been extensively tested in homes and schools.

"We are now convinced that this one package, covering all the problem areas and including its own built-in dictionary, could revolutionise the teaching of spelling for today's children."

Price: £25.99.







Education in the wind

THE Wind in the Willows is the latest claim the firm, betters children's read-

Taking the role of Mole, the child tries to defend Toad Hall from Weasels by collecting passwords and choosing the correct route to meet other animals. Price: £22.95.

ISDN link for Amigas EUROPEANS wanting to connect their A2000s and 3000s to the ISDN-network tele

phone service will soon be offered ISDN-Master, a new plug-in card from BSC (010 49 89 357 130 0). It enables the use of ISDN video text and telephone services such as conference calls

and answering machine as well as data transfer at high baud rates. Aimed at mailbox systems, graphic studios, video text suppliers and users of wide

area networks, the card is claimed to reduce on-line time by 75 per cent Each country needs a different version of the board, and the UK card is expected by the end of September. Meanwhile, the firm are looking for UK dealers and distributors for all their products.

 ISDN stands for Integrated Services Digital Network. It is a hi-tech telephone service which enables voice, fax machines, moderns and other devices to be used simultaneously over a sin-

In Britain installation costs at least £400, with an £84 quarterly rental change, At the moment it is used mainly by large businesses with advanced telephone systems.

Challenge for monitor buyers

AMIGA users buying Philips' popular CM8833/II colour monitor are now given a free copy of Gremlin Graphics' car racing game Lotus Turbo Challenge II.

Last year Philips supplied F-19 Stealth Fighter with the monitor and it is believed the firm are using the offer to make grey import models without the software unattractive. Price: £229.

Star driver

Printers get OWNERS of Star printers are being offered Amiga printer drivers which are now distributed free of charge. All Star dealers have been supplied

with masters of the drivers, but the manufacturer says any customer with a problem can call their technical hotline for help on 0494 471111.

More fonts for DTP

offered 350 Type 1 fonts for use within PageStream and Professional Page 3.0 by Lincoln-based FontShop (0526 398403)

Available in seven volumes of 50 fonts each, the disks include pictorial font previews and support utilities.

three volumes of Compugraphic fonts have also been Pagesetter 2, WB2 and Professional Page 2.

.

Gasteiner add ICD LONDON-based Gasteiner Technologies (081-365 1151) have announced that they have become distributors for all ICD products including RAM upgrades, hard drives and hard drive controllers.

DO YOU KNOW SOMETHING WE DON'T?

Although Amiga Computing has scores of contacts in the Amiga the news desk now on 0625 878888 or fax to 0625 879966. All information supplied will be treated in the strictest of confidence.

DIARY DATES

5 September 1992 All Formats Computer Fair Organiser: Bruce Everiss Venue: National Motorcycle Museum Software bargains, many from the public domain

6 to 8 September 1992 Furonean Computer Trade Show

Organiser: Blenheim PFI (081,742 2828) Venue: Business Design Centre A new trade-only event for the comnuter leisure industry

5 to 8 November 1992 Venue: Earls Court 1, London Plenty of Amiga support, including a major presence from Commodore

19 to 22 November 1992 Christmas Computer Shopper Show Organiser: Blenheim PEI (081,742 2828) Venue: Olympia, London A few Amiga bits and pieces can be picked up such as disks and

OVERSEAS

8 to 11 October 1992 Computer Shopper Show Organiser: AMI Shows Europe A chance to catch up on the year's developments in the active Amiga world. Formerly Amiga Koln

26 to 29 November 1992 World of Commodore '92 Organiser: Fairs & Fun (010 49 8106 34094) Germany, 100,000 visitors expected

• If your company is organising a show relevant to the Amig and it's not listed, let us know so we can include the informa tion in the diary.





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ou can almost feel the anticipation amongs Amiga users here in the US. As this is being written, we're just a month away from the World of Commodore show in Pasadena, California.

The ads for the show in US Amica magazines promise that we'll see "new hardware". Of course, everyone is speculating that this will be the long-rumoured Amiga 4000. Then again, it could just be the Amiga 600HD, which Commodore finally announced should be available in the US in mid-September.

The US model is the same as the European version, except that it boots in NTSC and includes 40Mb of hard drive storage instead of just 20Mb. Will we see the A4000? Watch this space next month to find out.

> year upstart developer Jaeger Software released er Duel: Corsair vs Zero for the Amiga. The program was remarkable in that it allowed 28 frame-per-econd air combat animation in hi-res, 640 x 400 mode while maintaining one of the most realistic flight models in the business.

Commodore say "Don't be densel"

All Amiga 3000T units in the US have shipped with a new floppy drive manufactured by Chinon. This drive will read and write standard 880k Amiga floppy disks. but it also supports high-density disks, storing 1.76Mb of data on a singly floppy.

Using CrossDOS, it can also read high density 1,44Mb MS-DOS disks. Sounds wonderful, right?

Lots of Amiga users thought so, especially the lucky owners of standard A3000s who plopped high-density disks in their DFO: drives, formatted them, and found

Fastest Amiga Yet!

announce in September, a surprise press release popped up on my doorstep announce ing the new Amiga 3000T-040/200.

This \$5,998 (including monitor) machine looks just like the standard tower version of the A3000 on the outside, but inside it sports a 25MHz 68040 microprocessor with onboard maths co-processor, making it the fastest Amiga ever shipped by Commodore.

The 68040 isn't actually on the computer's motherboard, but instead sits on an expansion card that plugs into the 3000T's processor expansion slot. Sources close to Commodore say that the machine may actually ship without the 68030/68882 combination normally found on the A3000T's motherboard. Like the original A3000T, the machine includes a 200Mb SCSI hard drive; SMb of

RAM (1Mb Chip, 4Mb Fast), expandable to 18Mb; and Commodore's new 1.76Mb high-density floppy drive (more on this later). The 68040 card will be available separately as the A3640, for \$1,998. Although the

processor expansion slots are identical in the A3000 and A3000T, this 20 million-instruction-per-second board is only approved for use in the A3000T

According to sources within Commodore, the board will technically work in the standard A3000, but the heat generated by the 68040 processor prevents the board's use in the more cramped, less well-ventilated A3000. No matter, as there are third-party 68040 boards that work fine in the standard A3000

out they had the high-density drive. Then the drives appeared on Commodore's replacement parts list, meaning current Amiga owners could order them.

Just as everyone was getting excited at these new double-storage drives, hoping they'd be standard equipment on all Amigas, new A3000s stopped including them, and they became permanently backordered on CBM's parts list. What happened? It turns out that the drives don't work properly when installed as DF1: in an A3000 or A2000 - at least, not under AmigaDOS 2.04. And of course, 90 per cent of the people who purchased these drives tried to put them in as DF1:. So we can hope that when AmigaDOS 2.1 ships, we'll see these drives available. I've had one installed in my A2000 for about a month, and it certainly makes backing up the old hard drive more pleasant.

Fighter Duel Redux

did have some deficiencies. The enemy comput ligence was some what limited, and aviation aficionados wanted more

> aht simulators has done set of new features

and Zero, Fighter Duel Pro

Seafire MK2, Hurricane, Tempest IV, N1K George, J7W Shinden, Bf-109E and Bf-109G, and the Focke-Wulf

You can now fly against two computer enemie simultaneously, as well as against another human tournament mode, so BBS and online network users

gram's panorama view, but the true fanatic flight sim buff will choose to use the new Rear View mode Using a special parallel cable, you can actually hook

your aircraft! No more getting bounced from behind because you couldn't reach for the mouse to pan the spare AS00, here's your excuse

tains its incredible frame rate. The program is fully PAL-compatible, and retails for \$59.95. It's available from Jaeger Software, 7800 White Cliff Ter., Rockville, MD 20855: (301) 8948-6862





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old

TREND GRAPH









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of weekly, mormly, quarterly, 6 monthly, yearly or just a single payment. Entry Posting. Transactions made on one account can be automatically joisted to a second account. PFM Plus display full details of entry sources and destinations. This feature also accelled of entry sources and destinations. This feature also accelled to the programment of the programment of

to standing orders.

Multiple Views

Up to 5 Views of any one window can be displayed at the same time. This allows different parts of the account to be visible through independent sorolling, or copies of graphs to be displayed covering different time periods. a total of 5.

treen displays and printouts for budget comparisons and account summaries, in addition to the normal

atowing attenuative character piches, bold underlining and itakes printing. Printer control codes defined in separate configuration file.

Sorte May on some it is won. Desktop. Desktop. FFM Plus uses workbench desktop from which accounts may be salected. The desktop also includes an analog clock and a four function calculator. The calculator can be used even if it is not in the top window. Desktop icons can

sed even f. 8 is not in the top window. Desktop isons can be avanaged as required ineghts but different types of graph plot are available. A balance out, a pre-chart shrewing selected budget conspones, to copies companion but chart and a trend graph. The raph can be used to show long term increases or processes in your bills. All graphs sum-casts to the window.

Key Short-Cuts Most mouse and menu operations can also be selected by

fine help dialogs cover a range of key topics

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best new products and peripherals currently available for the Amiga. CD ROM DRIVE-A570 VIDEO STREAMER Long awaited from commadore, this essential add-on has finally arrived, suitable for A500/A500+, A570. For A500/500+-1500/2000-3000 and CDTV For AND(0300-1300/2000-3000 and CDTV This unique back up and storage system is able to store/back-up data at the same rate as more expensive tape streamers. Using a standard VHS video cassetty ou can store up to a mindbeading 800 Mb!

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ACCD-Rom

ver since the release and subsequent marketing catastrophe of CDTV, the Amiga has been gagging for a ROM drive all of its own. Now after a year of solid speculation. Commodore have finally done the decent thing and

released the AS70. This unit instantly transforms the A500 Plus, or in fact any A500 installed with 1Mb of chip RAM (Fatter Agnus) plus Kickstart II

or 1.3, into an instant CDTV The RAM configuration is essential for operation of the AS70 and could well explain the mysterious appearance and subsequent disappearance of the Plus as a Commodore released the Plus merely to create a user base for the CD-ROM drive? Surely not.

Although the A570 has appeared in countless mags in its pre-production state, AC - as ever - is the first magazine to bring you the full story of what could well be a revolution for the lowly base-level Arniga.

Refore the dive headlong into the potential of the drive, a brief tour of its physical attributes is in order. As you can see from the photography, it's basically a very simple unit.

Simplistic

Installation couldn't be easier - all the user need do is remove the cover on the DMA expansion port and slide the drive into place. Audio connection is equally simplistic with the audio outs from the Amiga connecting leave the A570 and connect to the monitor

or amplifier as normal. The reason for this slightly strange arrangement is that it allows Amiga and CD sound to share a common input while mixing output from both sources.

Alongside the four audio connections the unit boasts a mysterious expansion slot which we'll look at in detail later - and of course the inevitable power socket for yet

another hefty Commodore house-brick Moving to the front of the unit, features are fairly sparse, and dare I say, stylish, Most obvious is the trapdoor which awaits the CD and caddy combination.

Alongside this sits the eject button accompanied by the far less obvious power and access lights. On the far left of the unit lurk the headphone socket and the dual off/on and headohone volume control.

Insertion

The only other item worthy of mention is the accompanying caddy, used to house CDs prior to insertion into the drive. To the average hi-fi fan who's used to simply dropping audio CDs into a convenient sliding drawer, the hassle of opening, closing, and inserting CDs into the caddy and subsequently into the drive itself can be a tad

Although a seemingly strange procedure, it's nevertheless all for a good reason. On standard CD players, missing the odd byte reading the disk would be unnoticeable.

irritating

But when the output is program data rather than a simple stream of digital music. even the slightest error will cause a software failure

This is the reasoning behind the use of a caddy. First it's essential that the disc is read correctly, but perhaps more importantly it's vital that the disc is not damaged. Unlike audio discs. CD-ROMs don't claim

near indestructibility - in fact they're relatively frail little items that need the caddy to ensure safekeeping. Another bonus of the accuracy required for data transfer is the playback quality of

standard audio CDs. Although not designed specifically for the job, the AS70 will easily outstrip the average home CD player in the sound quality stakes

Like installation, application is equally simple. If no boot disk or hard disk auto-

Expansion options

Like any good peripheral, the AS70 has upgrading options built in. The most vital is the rear expansion port which allows the addition of A600-style 2.5in IDE hard disks which can

vary in size from 20 right up to 120Mb. Although an optional HD is a pleasant addition, it would have been a better policy to add a through port on the A570 itself. Because of this annoying omission users with exist-

ing HD's aren't likely to have Commodore on the top of their Christmas list. If you're one of the lucky few with a hard drive which boasts a built-in DMA through-

Aside from the optional IDE expansion, the AS70 can also handle 2Mb of fast RAM internally, although if you already have RAM expansion on your Amiga it will be taken advantage of by the AS70

boot option is present, the drive simply takes control of the system and boots the CD in the drive, or alternatively throws up the familiar CDTV intro screen. At this point you're in the "please insert a

disk mode". If you insert a standard Amiga floppy, the system will boot as normal. Alternatively, if a CD-ROM is inserted, the A570 takes control and will either load a Workhench or auto-boot the CD software depending on how it was written.

Even when the floppy route is taken you still have full access to the CD-ROM as it then becomes an additional device entitled CD0:. Just like any other drive, you can copy files from it, or run programs within it. The only difference is that it's impossible to actually write data. Another nice touch is the addition of a small utility which allows remote control of standard audio CDs from Workbench, Obviously standard CDs can't be read via AmigaDOS. As a result. Commodore have added

CDolay which allows you to hop around and play back normal CD tracks while using any standard intuition-based software as normal. If you're neither a game player or in pur-

suit of endless trivia, the A570 may seem a little pointless. In fact that's far from the Now Commodore have finally admitted

that CDTV or more precisely CD-ROM is part of the overall computing environment, developers of power application would be mad not to take advantage, as they already have on both the Mac and the PC. The floodgates



Software spectacular iks to the release of CDTV there's already a very respectable supply of soft

re, the vast majority of which is interactive, encyclopedia-style material but apparently missed completely

Many of the more familiar Amiga-style CDs are affectionately known as "shovels are". In short, software that makes no attempt to take advantage of the A570's greactive and accessing power but merely employs it as a 600Mb storage device. Still it's not all shovelware and encyclopedias, as many of the latest second ger

esides all combining to produce a stunning game and truly wonderfu

Like many of the latest releases, the program takes advantage of the propri

ks to the CDXL system, around 15 frames a second of quarter screen full tised video can be spooled direct from ROM. With over 600Mb of stor uct that could launch the A570 and the CDTV into the big league of hi

MANAMANANA

are now opening for CD-ROMs dedicated to power applications, hundreds of PostScript fonts, clip art numbering in the sands, texture maps and 24-bit back drops by the bucketful - all stored on

signer CD-ROMs A perfect example of this already exists in the form of CDPD, which is a single ROM holding the entire Fred Fish collection from

Aside from Amiga CD-ROMs it has been ed that the new drive will access existing PC and Mac power ROMs - clips, fonts, 24-bit textures and so on

Although extras such as hard dides and onal RAM are already in hand, that's only the tip of a sizeable iceberg which if implemented could make the existing ilities of the AS70 look rather

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MVA

The first of these additions will be a system already available on the CDTV which nately has been initially left off the A570. Advanced Video Mode - AVM for short - will allow the A570 to access pseudo 24-bit graphics in the style of

from a palette of four million, as oppose to the lowly 16,000 colours on scree offered by the Philips CD-I system.

frames per second. According to Commodore's Gary Lewis, the imagery and

not

accompanying CD-quality sound will be well above that offered by standard VHS

Mr Lewis went on to claim that a full 72 minutes of digital audio/video could be the astonishing compression and decom pression features of the new Mpeg chipset And thanks to the interactive capabilities of the system it could even be possible pick

Piracy stricken

It remains to be seen how close to the afraid we'll all have to wait until '93 to find out. If the hardware matches the marketing remains to be seen if the consumer will be ready to forsake the recording ability of CD-ROM.

Some of you may well be thinking this is about the rest of use? Well - and I quote Commodore are devoted to CD-ROM

fiction

Paul Austin brings you the definitive guide to the long-awaited A570 CD-ROM drive, set to bring multimedia

to the masses





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Infofile (Database)...

AC Education

s a faculty head, I am responsible for leading six departments in school, and our Amigas play a vital role in developing understanding of how to use technology, from music to mechanical engineering.

Needless to say, we have developed pretty extensive skills in stretching the Amiga to its limits, and along the way learned both by costly error and imaginative messing what we feel are the most appropriate software and hardware solutions to achieve the best possible outcomes



is without



Wilf Rees reports on using

computers in education, and selecting horses for courses

wordworth is for

Chalk faces

plethora of advertising hype, and unsure within limited resources. All of the major applications are covered by one departabout the decision. ment or another, and what I would like to Probably the most widely used of all do is share our experiences with you and demonstrate why we have chosen particu-

This advice may be of use if you are a parent wondering which software would be most appropriate for your child's use, a student anxious about value for money, or maybe just a reader confused by the

our software are the wordprocessors that we have. These vary enormously in price, and offer a myriad of assorted options. Good old Kindwords has received vari-

our beatings in the computer press, and while, yes, I know it does have limitations and can suddenly (though not as often as claimed!) crash, but it is cheap, it works,

challenge

it's easy to use, and has literally handled millions of words in my school. It can import graphics, perform most of

the rudimentary requirements for the majority of six-finger typists, and output text in a perfectly acceptable manner.

There are several others, with more sophisticated and professional features, but I have no hesitation in recommending Wordworth as being the best of the rest. The range of facilities are stunning, and the dictionary/thesaurus support is the

The big problem with any computer is getting hard copy

out, that looks the part but doesn't cost the earth. Apart from colour laser printers, for which you will need to mortgage your house, the remaining options are limited. We have several dot matrix printers fitted with colour kits, but despite people like Citizen offering free dump software which offers some improvements, really the output is

a bit naff, and the banding still obvious Inkjet printers offer reasonable results, and the best I have seen at a reasonable cost is the HP Paint-jet, it is half the price it was four years ago, and while a bit costly to

run, does give accurate and clean prints. There is an alternative that I have found which offers some salvation. Care Electronics offer Flexidump 2 which is

an innovative solution to improving the output of dotmatrix printers. The software overrides preferences, and instead uses its own routines to provide superior quality results. We have

used this software with a Star LC200, and the comparative results can be seen in the printouts. Care Electronics offer

two other facilities which deserve attention - firstly a bubbleiet colour kit, and secondly replacement ribbons for inkiets which when printed onto paper, can be transferred

to fabric using a hot iron. Providing the fabric contains some synthetic content, it works really well, and the colours are bright and fast

One method I have used very successfully is the silkscreen route. This involves taking a digitised image, and loading it into Art Department. Art Department is a really useful package which allows all sorts of image manipulation. Process colours

One of its key features is the ability to separate the process

colours from an ordinary IFF file. Process colours are the four tints which collectively constitute a coloured photograph. often seen printed along the side of a daily newspaper. They are yellow, cyan, magenta and black. If you use Art

Department to carry out this process, you then change each of the colour separations into greyscales, remembering to record, (usually with the initials, Y,C,M,B in some discreet corner), which one represents each colour These images are then printed out onto ordinary paper

via your printer. The greyscale images then go to a photocopier, and instead of loading it with copying paper, you use acetate.

The result is four images representing each process colour, in greyscale, printed onto clear acetate Silk-screen printing is an ancient art-form, still extensively

used today for high quality, crisp, multicoloured prints. It consists of a wooden frame across which is tightly stretched a sheet of silk. Printing ink is forced through the fine pores

Printing to perfection of the silk by using a rubber bungee, which is drawn across

the inside surface of the silk. A template, or image fixed photographically onto the screen, resists selected areas from printing, to create the

desired image. This is where the acetate sheets come in, because treating the surface of the screen with a proprietary light-sensitive emulsion causes the screen to fix the image from the acetate if exposed to ultra violet light.

By either repeating the exercise four times, or using four separate screens, we have in effect an image representing each of the constituent colours which go to make a coloured picture.

All that is then required is to print process coloured ink onto paper, finishing with black, and we end up with superb high quality results.

most friendly and comprehensive around

Digita have given a great deal of thought to this program which not only performs well as a wordprocessor, but goes a long way towards offering desktop publishing at a reasonably competent level to cater for many needs

One of the most useful features from my point of view is Wordworth's ability to import text in several formats

(Kindwords, Protext, Ascii, ProWrite WordPerfect) and still handle the differences. If you are going to get into a situation where you receive disks with text in all manner of forms, then Wordworth is the choice to make.

Scanners

I recently spent the weekend at a computer show in London, and one of my objectives was to find a hand scanner. Using scanned images has grown in popularity at school as a quick way to import graphics to enhance presentations, especially in extended essays requiring

My quest took me around all of the major suppliers, and I had a good opportunity to try all of them out. I found several of them performed on a par with each other the Pandaal and the Power Computing models giving pretty much the same quality, but I felt one stood out from the rest. and that was the Alfascan from Alfadata. I now have purchased one, and can con-

firm that the results are brilliant, better even than digitising. Along with the Alfascan I purchased Touchup from Migraph, and it is this software which makes this an unbeatable combination. A4 capability, 256-greyscale scanning

and the facility to save IFF, IMG, PCX, TIFF,



been aiven a lat of stick over the last four

and MacPaint formats give unrivalled communication capabilities. Touchup allows many additional features beyond the simple scan/cut and paste

A greyscale previewer allows you to view the current mono dithered image as a greyscale image, and an IFF viewer allows previously scanned images or other IFF and HAM images from other programs to be viewed. A palette tool enables modification of the RGB values, necessary to reduce flicker when working in interlace.

A comprehensive Paint mode offers the chance to work into the scan with all manner of drawing and fill facilities, and the Clip mode gives a plethora of sophisticated manipulative tools. I certainly find this combination has a good head and shoulders lead on the rest.

Hand-held colour scanners are still a little rare, and not yet produced in sufficient numbers to allow market forces to influence price.

Solutions for colour images still lie in the digitising field, and in a market where Digiview ruled supreme, we now have one or two pretenders. Datel have a budget model, which I found limited in flexibility

Express yourself

ry high order.

The three packages all work with Midi, but only Music X has the sophisticated cilities necessary to contemplate professional quality composing.

Our Amigas drive assorted Midi keyboards from Roland, and expanders and without from working and expanders and without from working memorations understureers. We even use Midi electric guitars to

BAR EDUTOR

esentations are for in X-CAD mer pockobe. Lots of additional atilities are now Noble to exten its scope, as well as X-CAD Professional which is the

AC Education

and quality. Rombo have entered the market with their Complete Colour Solution adding an electronic RGB splitter to avoid the tedious process of separate red, blue

and oreen orahs The Rombo package is good value for money, especially if bought as the complete solution, rather than the two items separate. However, I think the others are

still pretenders and none can produce the quality achievable with Digiview 4. It does have to be said, however, that so much of the outcome depends on both the lighting and the quality of the image to be

digitised. It is not really acceptable to use ordinary domestic light-bulbs to illuminate the image. I strongly suggest investing in either daylight photographic bulbs, or "neon" daylight. The quality is markedly better,

and the colour reproduction much more Chean camera

accurate.

There is not a great deal of need to go overboard on the video camera used, in fact I often use a black and white security camera, bought second-hand from a surplus electronics shop for £15.

What is important is that the focus is really crisp, and that the illumination avoids "flares" and dark spots, often found on images with glossy surfaces.

I did for a few weeks have a Colourpic on loan. Now this is a different ball-park, allowing real-time colour digitising, but at a price. But then you need to ask the guestion. "Do I really need the facility to grab and buffer several frames, or will single grabs serve my needs?"

Had the box been half the price. I might have been tempted, but I think frankly it is too expensive, especially if you look inside and see the amount of electronics required to achieve the tasks, and anart from which. I can get just as good results from Digiview, time-consuming



though it may be. Once into the world of digitising, then video guickly rears its expensive head, probably one area where the Amiga rules supreme among all personal

computers We use the Amiga in our television suite, to assist with editing and titling, and for controlling the storage and recording of tapes. In terms of quality, the genlocks available

on the market vary from £99 adequate, to 6800+ broadcast quality. Several acquaintances use Amigas for professional video production, and the favoured choice seems to depend upon the Amiga

Commodore's own A111 fits internally into the video slot and is a superb performer, especially since it has plummeted in price, available for around £125. This unit willrequire, of

course, an Amiga 2000. However my favourite is the trusty old Rendale A8802, still performing faultlessly after four years, and giving first class results.

Rendale offer an upgrade service to allow



IMAS package has just that, as well as

serforming well without one problems

rite scanner and software. Touchup ally is a useful package, and the Datascan performs extremely well

fades, as well as SVHS capability to be included, so this is the path I will take. Of course a genlock isn't really exploited unless some software is used to provide titles and effects

I seem to have gone guite a long way so far without mentioning Deluxe Paint, but I suppose it had to happen eventually. This really is a thoroughbred among software, and has such versatility, that I have yet to find an application that it can't tackle. We use it extensively for all manner of

applications, and in particular for video. The animation facility allows scrolling of titles, view boxes for video headers come from the drawing tools, and fades are handled easily with the colour palette facilities.

Perinherals

External devices added to the Amiga are available in all manner of function and application. Two areas growing in leaps and bounds in education are CAD and

Computer-aided design is a term for any

aspect of the design process which employs computers to assist that process, in particular the engineering/mechanical development of machine-based components which can be quickly and accurately drawn using dedicated software

The package favoured by me is X-CAD Designer. A recent change in distributor has seen the development of a host of additional support packages which go to making this a very comprehensive and powerful facility.

I would recommend supporting this with Expert Draw, a vector-based drawing package which allows scaling of images, without loss of definition - the blight of bitmapped drawings

Realisations of products designed on X-CAD Designer can be drawn on Expert Draw, imported into Wordworth and used for writing up reports, or evaluation documents in assignments.

Getting output from CAD packages will work with dot-matrix printers, but really a plotter is a must for larger and more accurate data?

We have looked at the various models available, and opted for two different makes - the Graphtek MP4100 and the Plotmate

The Graphtek is the more expensive, and worked without any problems, the Plotmate took quite a while to get working, requiring the fitting of HPGL ROMs to enable handshaking with the serial port.

A new model has now replaced the A3M. called the XY7 50, and I'm told it has improved speed and hand-shaking capabilities. Roland do make very competent performers, but the Roland Desktop 7475A comes in at a mere £1.405, seeming a little nricev

Control

Equipment for control on the Amiga is a little thin on the ground. I had a good look at a product called Techno Amiga some time ago, which offered sound, light and electronic experiments, but only on a limited scale, and not really appropriate for use with students in high schools.

I recommend unreservedly a company called Switchsoft, who make an input/output port, along with a host of additional kits to enable the owner to build anything from a simple switching circuit to a robot or a buggy.

These kits are remarkably cheap, and built to a really high standard. All kinds of add-ons can also be purchased - for example there is a mains controller, allowing your Amiga to control up to 3.6kW of power, a motorised gearbox, gear and pulley kits, wheel and axle packs, a power RAM kit, relay boxes, and many more

I have spent hours with students using this superb collection of accessories, and would suggest any school seeking a means of introducing control, or any parent look ing for a worthwhile and educative present. to seriously consider this



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etris has become one of those much emulated games with all the ingredients of a classic - simple and elesant gameolay with more addiction than a noveful of South American talcum powder up it's not summising that most of us will think we've seen all the possible connotations

Tettrix, found on an earlier AC CoverDisk. used a horizontal playing area as opposed to the usual vertically dropping bricks, and Welltris introduced a 3D perspective. Quadrix, however, goes one better by throwing bricks at the player from four

To complete each level a set variety of tasks must be completed within a specified time limit. At the start of each level details of what tasks are to be attempted are given. liead these carefully or you'll never finish a

The game itself is played on a square playfield with a variety of coloured blocks entering sequentially from each of the four directions. Similar coloured blocks can be marked in various patterns to complete each limel's various tasks

in addition there are a variety of special blocks that have peculiar and useful properties. Understanding these special blocks and the effect they have is essential to complet-

ing most levels of Quadrix. Virtually all control is through the joystick. The central playfield of Quadrix can be scrolled in all directions using the stick, and there is no limit to scrolling in any direction as the playfield "wraps around". Any blocks isaving from one side of the playfield appear

on the opposite edge. The Fire button can be used to speed up the entry of external or moving blocks into the playfield. Most levels will require frequent use of the Fire button to complete the

required tasks in the set time. in addition, the left mouse button acti-

sates a "Time Out" and the right button guits to the Game Over sequence. Keep the basic principles in mind, read

the hints document on the CoverDisk, and liex those joystick fingers. You'll need all the help you can get to finish this one!

brain around Geoffrey Sparks's highly original Tetris variant. We couldn't

way mayhem

SnoopDos

Author: Eddy Carroll

SnoopDos is the answer to the dreams and curses of any frustrated Amiga owner who's ever copied a program from one disk to another only to find that the program requires an obscure system library or config file in order to run.

By loading up SnoopDos and simply running the guilty program once more, the user can actually watch the system accesses being made in real time, and keep track of which ones are causing the trouble.

SnoonDos has been around for a while, but has never found much of an audience beyond that of the programming fraternity, despite the fact that it could save the average owner a lot of chewed fingernails. To test how it works, just double click on its icon. or select it from the ShortCut menus.

When the program runs, you'll see an unin-

spiring window appear on your Workbench screen. It is here that SnoopDos will list every secret rendezvous made by your

Feel free to drag the window out to a larger size, because when a complex program runs, the number of files needed and system accesses made can make for a lengthy list.

Now that SnoopDos is running, go to the CLI window left open at the



CoverDisk AC

Try fitting your

Quadrix - some basic principles

- When two blocks of the same type collide they destroy each other.
- Blocks wait a short time before moving in of their own accord. Some levels have restricted movement, either left/right only or up/down only.
- The information window for each level will have a footnote listing any Some levels are PUSH levels. In these a special incoming block appears which
- has the power to move any block it makes contact with. Please note that the incoming block will not start to move of its own account, but must be "fired" in with the joystick button
- All patterns except horizontals and verticals must be brought to a central po tion before they are activated.
- A pattern can be formed from ANY block
- The speed at which the timer runs down depends on the colour with which it is filled.

AG Cover Disk



bottom of the Workbench screen and type DUN HAPP

Within a short space of time, the SnoopDos window will report that MMPP has attempted to access the file requester library of its choice (it can try several until it finds one it likes), and as the file requester library (in this case Arp.library) exists on your CoverDisk, a file requester will pop up on screen.

To make best use of the program, copy SnoopDos onto a disk of its own or a utilities disk if you use one, and it can be employed when needed.

The program doesn't take up much space, so it could be left permanently on a system disk, but as it is hardly ever used, this would be a waste. For those with printers, SnoopDos can be forced to output its report to the printer. To

enable a hard copy, run SnoopDos by typing:

SMOOPBOS -2PRT:

All SnoopDos reporting will now be sent directly to the printer using the Workbench preferences settings. Continuous stationery is recommended for this latter option, as SnoopDos will very quickly cover an A4 sheet

For information on SnoopDos's more advanced options, see the doc files on disk but for now, may you never lack a library file

Chequebook

Author: Eric Randall

Chequebook is another of those utilities designed to make keeping track of your bank account as easy as possible by recording all cheques issued and standing orders paid, then matching these to your groaning bank account

It won't turn a financial mess into a prof itable situation, but it will at least enable the user to see clearly exactly what sort of mess

he or she is in. The program runs on a simple Workbench screen and has only a few menu options to keep things as simple as possible When first run from the CoverDisk there won't be any data for Chequebook to display, but by selecting Load Account the sample "test.dat" file can be loaded as an

At the top of the display the account name and current balance are displayed along with the record number if there are more pages to the present account record than are currently being displayed.

Relow this there is a window, blank, in which all account details are

To review the state of the account's standing orders, hold down the right mouse button and select Standing Orders from the Update menu. A screen full of financial details will appear, including the name of the



standing order, the start date, end date, and amount to be paid on each occasion, followed by the frequency of payment. As each date is passed, and the program

checks the system time on each boot up. the account balance is changed to reflect any standing order payment which has been made In this way, the user can keep track of all

regular outgoings, as each standing order payment is automatically passed to the transactions side of the program and recorded in the balance sheet.

The idea behind Chequebook is that the user keeps a close eye on his or her standing ture (more than most of us ever do), then compares the monthly bank statement to the already recorded debits.

If a cheque has been issued but has not appeared on the bank statement, it is easy to spot the discrepancy, and if the user wishes the corresponding cheque entry can be omitted from Chequebook's balance calculations.

Chequebook won't turn you into a good housekeeper or sensible money manager, but in this day and age it pays to spend some time every month sorting out where all last month's money went, and Chequebook is a useful utility to help you do just that.

Virus Checker v6.15

Author: John Veldthuis

The last time we distributed Virus Checker on the Amiga Computing CoverDisk, one of our competitor magazines unleashed the Saddam virus on an unwary population only one month later by neglecting to check their own disk as thoroughly as they should have. It was only thanks to Virus Checker v5 32 that most of our readers were spared the nightmare of infection.

We weren't psychic, nor could we have predicted what would happen to the AUI December disk, but the timely distribution of Virus Checker v5.32 illustrates one very important point about the battle against viruses - you can never call a halt to the arms race.

For this reason, we decided it was about time for the latest version of Virus Checker to make its CoverDisk debut.

The program has evolved somewhat since v5.32, and has become much friendlier, especially towards Workbench 2.04 users. Many small bugs have been fixed, lots of new viruses added, and the program no longer treats a Workbench



Alty to balance the budget could be indispensible these days



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2.04 boot block as if it was a virus. In addition, when the user clicks on the Virus Checker window bar, several new features become available.

There are now two menus to choose from, Project and Window, Under Project. options are available for carrying out link virus scans of a chosen disk or directory, complete memory scans, and the detection of Saddam damage on a corrupted disk

Memory and link virus scans are carried out automatically when the program is run, and all new disks are checked for link viruses when inserted, but the option to re-check a disk at any time can come in handy when there is a suspected virus on the loose.

The Window menu simply offers to close Virus Checker's window or snapshot its position on-screen. If closed, Virus Checker will be invisible to the user until a problem arises, at which time the usual warning requesters are displayed. The window can be re-displayed at the press of a hotkey combination if required

When the window is visible on-screen, and running under Workbench 2.04, clicking on the Zoom gadget will reveal a half-screen-sized window enabling the user to alter the Virus Checker preferences. The options on offer are fairly selfevident, and are described in detail in the on-disk documentation.

For Workbench 1.3 users, configuring Vinis Checker isn't quite as easy. All the relevant configuration commands can be added to the program's icon in the form of tool types, but unless run from Workberich, the icon file will have to be copied into the S: directory of the disk from which Virus Checker is run

As starting a virus killer from the startup-sequence is easily the safest way to proceed. Workbench 1.3 owners should boot from Workbench and use the following commands to install Virus

COMPRESENTATIVITIES/SINUS CHECKER/VIRUS

AIBB4

test the speed and processing

accelerator boards.

There are 16 different benchmarks in this latest version of the program, each of which has been coded to test the code of the cod

ety of standard Amiga configurations. For more informa-on system diagnostics, use the Systems menu for comp

Unfortunately, because of the nature of benchmarks, no

Inst Cache: (Cache Burst) CPU Tupe: 63988 CPU Clock Frequency: FPU Type: HONE FPU Clark Frequency Data Cache: Marke Burst:

MAR Copphack: MAU Tupe: NONE MAU Current Status: Write Alloc! ATRI Provoce Stack Honory Address: Curtou Clark Mauren Address:

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The startup-sequence file should then be edited and the line:

VIRUS_CHECKER

inserted somewhere before LOADWB. Workbench 2.04 users have a much easier time of things. All they need do to ensure that Virus Checker runs on startup is to drag the program's icon into the WBStartup drawer found on all Workbench 2.04 boot disks.

For those Workbench 1.3 users who might want to configure the program, click once on the Virus Checker icon, then select Info from the Workbench menus. To begin with, there are no tool types specified, but by adding:

the hotkey which pops Virus Checker to the front when the window has been closed can be set to any string the user wishes. For example, "HOTKEY Halt Icommand shift" changes the hotkey to a combination of left Alt, left Amiga, and the shift key. Check out those documents for a fully detailed look at the tool types and how to configure the pro-

LhA-SFX Author: Stefan Boberg

LhA-SFX is a utility dedicated to creating selfextracting archives from archives created using the LhA utility distributed on last month's CoverDisk. When an Jha or Jzh archive is given the SFX treatment, it becomes an executable program which, when run or double clicked upon, de-compresses itself.

SFX files are always saved out with the suffix .run, and can be found in increasing numbers on bulletin boards, where the ability to upload and download files which

need no archiving program to decompress is For any comms fans, the LhA-SFX program is the ideal tool.

and for users who pass a lot of data (IFFs and so on) or programs among a group of friends, LhA-SFX makes life a lot easier.

To test the pro-

gram, open a Shell window and type: LHRSFX (target archive) (destination file)

where (target archive) is the full name and path of the archive to be converted, and (destination file) is the name of the self-

extracting archive. Remember not to add a suffix to the destination file name, as LhA-SFX always adds the run suffix for the sake of clarity.

Other than this, there's not much to LhA-SFX when the program is used for basic purposes, but there are plenty of advanced command switches and options.

Faulty disk?

Competition AC

f you've read this month's feature on the ScalaMM 200, the Amiga's ultimate presentation system, you can't fail to have been impressed with this truly awesome piece of software.

If your finances won't stretch to the asking price, AC are offering you the opportunity to get a copy of this amazing product, or in fact any of the Scala family of presentation and tittling systems, absolutely free.

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G Smith Featherstone of West Yorkshire H Sayer-Thomas of Cwmbran, Gwent CJ Simpson of Blackpool, Lancashire

What's on offer...

d, and e self-

ds the b LhAic purWe're not just offering ScalaMM 200 – the ultimate power package – but a selection of the entire Scala lamily including two copies of the immensely popular Scala Video Studio and three copies of Scala HT. In dhort, a package to suit any Amiga system no matter how massive or modest.

For the power users we have the ultimate presentation system, namely ScalaMM 200. A package capable of controlling a huge variety of hardware, from user disks to Midi instruments, while adding unbehable graphics, real time animation, state of the arternated state of the arternated state of the same transitions of the same transitions of the same transitions and backromouths as standard.

broadcast quality wipes and fades plus an astonishin election of fonts and backgrounds as standard. For the semi-pros there are two copies of the original and immensely popular Scala Video Studio, or package that's inspired thousands of dasks presentations and video titling spectaculars. The full eight-dis-

package can be yours for the price of a stamp... Finally we have three copies of Scala HT, the umate home titling system which comes on three diand runs with just 1 meg of memory, ideal for the suithout a hard disk drive. The perfect package for standard A500 and A600 users.

ENTRY FORM	ScalaMM 200 S	cala Video Studio 🔲 Scala
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fter a long drive south, yours truly finally arrived at the headquarters of Scala UK for the long awaited unveiling of Scala MM200.

After the obligatory bun fight over the huffet, the unwashed masses sat down ready to be amazed by the Amiga's ultimate presentation package.

Needless to say I wasn't disappointed as Scala UK's leading lights Messrs Thurston and Philips put the new package through

The program was housed in a suitably well blessed A3000T complete with an eight-way serial expansion connecting a periphery of additional hardware which included a laser disk. CDTV. Canon Ion still video player plus a selection of Midi

After a brief sales pitch the show began, with the software throwing everything from animation to CD-quality sound into the action plus occasional blasts of Midi. digital video and Amiga samples and soundtracks.

Meanwhile the tireless twosome battled gamely against a less then co-operative touch screen, which did its best to put the that the program can provide. But even if you're happy to exploit just a few of the program's capabilities there can still be a hefty price to pay for total con-

trol over all the internal ontions If you're one of the kirky few with an A3000. Ife couldn't be simpler, as the package was obviously designed with precisely these and the machines of

the future in mind. For the average user with relatively limited means, the £460odd asking price is more than enough to restrict their exploits to the program's internal fea-

tures, at least for a while. With amazing animation spooling, sample and module sound, designer fonts, stylish backdrops and a selection of original wipes and fades, the

budget user can still produce amazing presentations and DTV without any additional The rest of the package still leaves its predecessor for dead in almost all areas. This is

have been added, not least of which is control of external devices, the addition of sound, whether it be Midi or via the Amiga. and of course the DTV essential of overscan

of feels MM 100



Scalaroid

Color Fading

A classic example of one of the new wines in actio

- an omission which was the major fault within the old Scala in the eyes of many videophiles Like its predecessor, MM200 still boasts

the best and simplest interface of any Amina package, and now makes life embar. rassingly simple thanks to the new shuffler option which produces thumbnails of the entire show which can be dragged around the screen, and subsequently the script. with the mouse.

Another pleasant addition is the option to record the timing of the script manually by simply activating the option and using the mouse to initialise transitions which are then automatically recorded by the soft

Multimedia

mockers on an otherwise stunning performance.

Although full of enhanced features and Amiga-exclusive improvements such as animation spooling direct from disk, sound module support, and complete control over samples, it was the program's external features that the dynamic duo really wanted to

As the list of associated hardware suguests, fully exploiting MM200 is an expentive business and points directly to the corporate marketplace that the program is designed for.

Obviously there's no need to employ the tall repertoire of Scala options - in fact, it's very unlikely most users will ever need all

made eas Those industrious Nordic types at Scala have done it again with yet another release that's way ahead of its time. But have they gone too far? Paul Austin examines Scala MultiMedia MM200

The familier face of the Scale system screen,

AG Multimedia

ware. The final new feature of the standard

interface is that of ontional sound. Unlike its

predecessor, the new software has impres-

sive support for sound with 8SVX IFFs.

SMUS. Soundtracker and DDS songs all

And no matter what the source. Scala

As mentioned earlier, sampling is sup-

ported directly from within the software

with options available for generic,

SoundMaster, GVP DSSI and GVP DSSII

samplers, in mono or stereo and from either

Although the original Scala supported

animation, the new Snapload option now

spools animation direct from disk, vastly

expanding the program's potential as an

During the presentation the option was

employed to spool an entire digital video

offers full control over volume, fade in/out,

being ideal sound sources.

halance and playback speed.

animation tool.



Still beautifully simple but no getting over a whole host of amazing power options

quarter-screen Pepsi commercial direct from disk with an accompanying soundtrack of course. This would have been impossible on the old Scala without a huge amount of additional RAM.

Although enhanced animation, the addition sound is wonderful news for the vast majority of users. Scala - the

company - are obviously pinning their corporate aspirations firmly on the most revolutionary addition to the new program,

namely Scala EX. This is the system at the heart of the presentation mentioned at the beginning of the article which allows the control of exter-

nal devices via serial connection. Modular

Like all the major Amiga power packages, Scala has adopted the modular approach which allows expansion without constant upgrading of the main program.

Thanks to the EX system Scala hope to add any multimedia application to the Scala environment by simply issuing a new EX

Six such modules come as standard with many more on the way. New modules are already in the pipeline including Elan video control and SMPTE timecode.

Again, to enhance the program's multi-

media anneal additional interactive options have been added via Scala's famous buttons, and indeed the main screen now has the ability to affect variables which could then be used to compile data via Lingo -Scala's own proprietary multimedia language.

All such data could then be retrieved at a later date, giving the package a new lease of life as an interactive market research tool. It's also possible to start one script from within another via the Lingo ARexx combination nun DOS applications and send Allery commands As a result almost any Amiga-based application could be employed as part of a presentation.

Bandwagon

As you may have guessed. Scala is now firmly on the ARexx bandwagon and has the option to save scripts as ARexx programs which can then be run from - and in concert with - any other ARexx-conversant software

One of the few disappointing features for the upgrading community is the lack of new fonts and backdrops. According to Scala

UK this problem will soon be rectified by additional Art Libraries and a whole array of fresh backdrops and typefaces, as well as specially composed music and sound samples - which will no doubt

cost Overall the package has all the options that existing Scala users have been waiting for, but not without stretching the Anternal sampling from a variety of machine to its limits and in zources, just one of many MM extra

Gettina it

either the PC or Mac - if they could do

some cases beyond. Nevertheless, with features such as Snapload, the EX system, ontional overscan plus complete control our audio whether it be Midi or otherwise. Scala MM200 is the kind of software that many serious users simply can't afford to be without.



The new wipes and fades

Unfortunately there's one area which the budget use without an A3000 won't be able to expiore, and that's the program's much hyped additional wipes and fades. Another 25 brand new effects have been added on top of the existing selection SAM uses know and

Unfortunately, much of the aforementioned hard ware isn't available as yet, so I'm afraid there's no guarantee of success. Keen a close aux on

A1500/A2000 owners already have systems which easily outstrip a standard 25MHz A3000, and yet even with the chip RAM upgrade the new wipes are still out of reach.



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cut down to a single page We'll try to make amends with a detailed look the new Real3D 1.4.2 and arquable the best structured drawing package on the market, namely the allnew ProDraw3.0

ProDraw 3.0

Structured drawing on the Amiga has always been a touch embarrassing when compared to some of the programs avail-

able on the Mac and PC Colour was never a big issue with the older packages, nor were the special text and graphics effects which make the best

programs so powerful. With the release of ProDraw 3.0, however, Gold Disk would appear to have dragged Amiga structured art into the 90s.

Launched months ahead of its potential rival. SoftLogik's Art Expression, and with the advantage of availability over ProVector, Professional Draw 3.0 is without

Amiga

Computin

competition. Whether the program will shine quite as much when battling it out with the other two is another matter, but for the moment it is far and away the best. structured drawing package for the

include gradient fill (at last!), special effects such as Blend (morphing to you and me), full support for 24-bit IFFs, and

in swaddling 3D requesters identical to

These lend a new dimension to ProDraw, enabling among other things an ADPro hot link for bitmaps, and make the user-definable macro a feature whose

expertise. cious few users will have much of a clue

included with the package, and a generous 300-odd commands are built in to the program's ARexx interface, but there is no

> have to design their own from the ground

The first job might be to re-program the ADPro hot link which doesn't appear to

This is fine for the

Additions to the ProDraw 2.0 formula

much improved PostScript output options. The whole shebang has been wrapped

those used in ProPage 3.0, and to ton things off the ProPage ARexx Genies have been included.

power is limited only by the user's ARexx

there, but not many Therein lies the rub, though, as preartists and graphic designers are prowhen it comes to ARexx programming. grammers, and as There are 36 ARexx Genie macros these often non-technical users will be the

package's main market the Genie feature should be much more auto-record macro function, so users will

In this day and age. simply bolting an ARexx interface onto a program is unacceptable if the power and flexibility of the lanquage are to be realised

programmers out

Aside from the Genie gripe, ProDraw 3.0 will give the user very little opportunity to complain. The extra features have been well implemented and all are solid improvements offering increased power and functionality. To aid the ProDraw 2.0

MIGA eippo As the Amiga and its software go from

strength to strength. AC brings you the ultimate guide to upgrading...



Arexx in action as the ProDraw

upgrader, the new functions have been given their own supplementary manual, so finding and making use of the program's latest talents is a quick and easy

Pantone colour support has been built in to the colour requester, PostScript output specs for printed pages are now much more controllable, Adobe Type 1 fonts can be used once converted to CompuGraphic format with the font manager, and text can now be typed directly onto the page.

A particular favourite with most users will be the gradient fills. These can be used in either linear or radial mode, and the angle of fill or radial centre can be defined by the user, giving a flexible range of fill effects for most jobs. Just the thing to gee up tired presentation and drab All in all, ProDraw 3.0 is a powerful and

flexible drawing package which answers most of the questions one might ask of it. Whether it will come out on top in competition with Art Expression and ProVector is one particular question we'll be answering when the SoftLogik product is released and we go head to head on all three. Watch this space.

- Real3D has finally come good and now lends its e output to the aforemention opear allowing you to completely define the outmat of the rendered file

As you'd expect there are the usual options to define le option to specify whether the render is to

ed speed while rendering and enhanced playback nimation, while the higher quality four-bitplane fers the best possible display for stills. er pleasant addition is the option to employ a 24-

er into which a true 24-bit image is rendered. With ion active it's possible to view the DCTV display but e the output as a true 24-bit Targa or IFF hough DCTV support is an impressive addition, it's the start of what Real can offer via the new library sign. Rather than releasing a new version of the



date every 24-bit board on the man Activa have opted for the library design which means any board - with a dedicated library - can be catered for, out the need to upgrade the package itself

like of rendering animations in full overscan with interlace which emanateS from its predecessor,. Real3D 1.4. Other than this minor inconvenience, it's just what the Real world has been waiting for

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Desktop Publishing AC

n this final part of our mini series on getting into print. I'll be going back to the design stage to look at ways in which the inexperienced can avoid some of the more fatal and often encountered pitfalls on the mad to the presses

There are two obvious components in every published page - words and artwork. Treating them as two different problems, it can be a rewarding exercise to go back to first principles and examine them both from

the around up. Artwork is the most common disaster area for publications, even long established magazines. With dodgy or crass illustrations. or badly constructed graphic elements which destroy a page rather than enhance it a magazine can soon lose its instant appeal, which is something any magazine needs if it is to entice new readers to pick it up off the shelves

Basic rules

When producing a title of any kind, the amateur publisher should stick to a few basic rules. Always use structured drawing tools whenever possible, keep it simple, and use clip art at your peril.

Artwork from a structured drawing packace will be in one of two forms, either a proprietary "clip" format, or the FPS industry standard. Clips are just structured drawings, and most packages will output DR2D clips. which is the structured drawing equivalent

Others, such as ProDraw, will also pro duce their own formats which often offer enhancements over DR2D, but the format is unimportant as long as it is recognised by the DTP package.

EPS, or Encapsulated PostScript, is an industry standard used by PostScript compatible laser printers and linotrons, and has several advantages over clip formats, not the least of which is its complete support for

Always use EPS when possible, though be aware of the fact that files in this form will take up a great deal more memory than

In design itself, one temptation to avoid is the tendency to go over the top with graphics, either using far too many, leading to cluttered pages, or using tilts, crazy angles, and weird special effects which contime the reader or dominate the text rather



typefaces.

and easy, but smerigina

Futura Bold, or another large heavy type-

face make for ideal headlines, and Stone

Sans makes for good body text, but it's sur-

prising how many people select unsuitable

striking, and can be used in smaller or

lighter form for sub-heads or cross-heads.

Body text should always be printed using a

font selected for its clean, readable look

There's no way around these rules unless

even at small type sizes.

Headline fonts should always be big and

many people assume that because they have 20 different PostScript fonts to choose from that they should use them all. In this game, more is definitely not better

No more than three or four different fonts should be used in any one magazine, and even fewer in smaller productions. As each font has a variety of typefaces.

such as bold, bold-italic, black, and oblique, a single font can often be used to great effect with just a little forward planning

The Guardian newspaper, for example uses Helvetica for its masthead (or logo), but because the typeface is actually Helyetica Black (very bold and thick), the difference between this and a letter you might print using Helvetica Narrow is immense.

Similar type

Similar fonts with a variety of typefaces means design flexibility without the sort of clashes caused by using two incompatible fonts, so keep it simple! Again, the general style of fonts should be the same. Broadly speaking, fonts can be

separated into serif and sans-serif. The former includes Times Roman, and any font with small outward, upward, or downward sweeps at the end of the letters Sans-serif fonts have no such ornamenta

tion, and include Stone Sans, the typeface in which this article is printed.

A mixture of serif and sans-serif fonts is a catastrophe in the making and should always be avoided, as should the conjoining of serious and frivolous fonts. Times Roman, for example, a sober type-

face used by many Why structured art? newspapers, should never appear in the same publication as Lefty Casual. If your publication is

designed for a frivolous audience, by all means use the wacky fonts, but stick to them and don't resort to pic 'n'

font for the job is another vital consideration. Helvetica Black, or

you want a magazine with wimpy headlines and body text which blinds its readers after a few pages. The use of clip art should also stick to font rules.

Don't mix styles, as is so easy when choosing someone else's art from a large collection of clips, and don't ura it often

A magazine which employs a professional lavout artist or art editor such as Amiga Computing. will always retain a consistent graphical design because the artwork is generated in-house and usually by

When clip art is used, no two clips share a similar design style (unless from one of the few high quality collections around), and many are all too obviously pasted straight into the publication

A structured drawing package and a few weeks' practice could pay for themselves ten times over in the design department. Miss out on even one of the basic rules.

and your publication could quickly fly apart at the seams as you concentrate on the supposedly more difficult aspects of putting together a mag that people want to read, yet neglect the basics which underpin everything found in

The word game part 3

Good presentation is half the formula for publishing success. Stevie Kennedy looks at how it can be improved

Stone Serif Stone-Sans

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vert my 1.3 A500 to an A600 by hacksawing the numeric keypad off? Also, can I convert my internal floppy drive to a hard

drive by giving it a shotgun? D Hancock, Flushing Unhappy customer

My advice to those considering the above upgrade would be to immerse themselves totally in a liquid of some sort (fresh water is best unless you have a hosepipe ban, in which case old bathwater will suffice) until the world turns back up the right way

Step two is to carefully box up all sharp objects you can find and send them far away by air mail. Australia would be nice.

is removed, you should be back to normal I am into my second year as a subscriber

but as long as the risk of Amiga mutilation

with your magazine and enjoy your well balanced articles. I have been keen on computers since the release of the Spectrum and have owned two Spectrums and an Amstrad CPC6128.

in a couple of years or so.

For many years when I changed from Spectrum to Amstrad I considered busing a Commodore 64, but it wasn't compati-

Ezra Surf's Postbag

omething to say through the pages of AC? Ezra Surf is ou. an, dedicated to sitting in a corner reading your letters and ailman, dedicated to sitting in a corner electing the most interesting for publication rop him a line at: Ezra Surf's Postbag, Amiga Computing, Europa House, Adlington Park,

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ot enough paper to reply personally. He might also ve to shorten your letters, so don't be offended if you end up ge ng the chop

bereft of support.

ble with anything and you even had to buy the expensive Commodore tape player. When Commodore developed the

Amina it wasn't compatible with the C64 or Vic 20, but there was a lot of thirdparty hardware and upgrading was a simple matter of replacing the ROM chip. This looked like the machine for me.

so I hought an ASOO a 20Mh hard drive extra drive, modern, and 2Mb RAM, Last year, the A500 Plus was released, and with a chip upgrade to my machine almost all software will still run happily. My biggest question now is why are

they discounting the Amiga 500 Plus in favour of a games machine which will not even accept my modem let alone my

hard drive? I should have trusted my instinct and maybe opted for an IBM, as any IBM-compatible will accept my modem at least. If Commodore don't null some trick out of their sleeve in the next year or so I will be forced to sell my

Amiga before it becomes a dinosaur If it comes to this pass, I certainly won't be buying anything else from Commodore

S.T. Gunn, Waikaremagna, New Zealand

I can only sympathise with any Amiga user trying desperately to fathom some logic or purpose in the Commodore marketing plan (assuming one exists) or the company's

Amiga versus PC

I have recently noticed several letters from people considering swapping their Amigas for PCs. If I were them, I'd save my money and stick with the Amiga.

I use a 33MHz 486 PC at work which has 4Mb RAM, 100Mb hard drive, and SVGA graphics, which is an impressive setup for number crunching applications, but I often think my old 1.2 Amiga could wipe the floor with it in many areas.

The major problem with PCs is that they are based on dated technology. Manufacturers keep coming up with new wrangles to boost performance, but there's no getting away from the PC's roots.

For example, standard memory is limited to 640k, and ail other memory has to be configured as an assortment of other types, such as extended or expanded. MS-DOS v5 isn't bad, but it's not as friendly as

AmigaDOS 2. Commands aren't as intuitive or Englishlike, and some operations are a lot more hassle Imagine having to load a mouse driver during boot up, and that many mouse drivers conflict with other pro-

grams. Imagine also that your mouse often doesn't point at every pixel on screen but only at text blocks of eight by eight pixels. Windows is an experience after Workbench 2.04. It uses a cack-handed way of associating icons with files

that alone would take pages to describe You need to run a SID-type utility just to see what's

on a disk because Windows has no disk icons, and if you do want to use MS-DOS, you have to drop out of Windows into a full screen DOS window because you can't use DOS and Windows at the same time (although

this may have changed with Windows 3.1). In addition, Windows doesn't handle multitasking very well. Things go very slowly, tasks go to sleep if you use another one,

Effectively, you can have multiple tasks in memory, but you can only be doing one thing at a time unless you want to go at a snail's pace, which is hardly multi-

The size of software packages is becoming a joke. OS 2/2 takes up 30Mb of hard drive space. Corel Draw 3 takes 30Mb, and Word for Windows 2 (a wordprocessor) takes 15Mb. That's 75Mb for an operating system, a paint package, and a wordprocessor! Next time your PC-owning friend tells you how good

the PC is, just ask them whether they are running in Real, Protected, or 386 enhanced mode, with DOS loaded in High, Extended memory, EMS, or XMS, or whether they just switch on and let Gary, Denise and Agnus do it all for them.

There are some good things about PCs, of course. They are getting cheaper all the time, have hard drives as standard, and decent graphics. However, I'm not overly impressed with the software. Which would you rather have come free with your new computer, Paintbrush or DPaint III?

If Commodore could reduce the price of the Amiga yet improve its speed to the equivalent of a 386 or 486 they would have a world beater. For the Amiga to compete it has to be brought up to date

Memory should be added directly to the motherboard as SIMM modules to avoid us using third-party boards,



there should be new graphics modes to compete with SVGA, a range of processor options, and interlace must go! Hard drives should be fitted as standard, too Alan Harding, Norwich

Commodore, though in a slaw and cumbersome fashion, have been doing all of the things you suggest for a couple of wars now. The A2000 HD was released with a hard drive as standard, the A3000 used a 25MHz 68030 (the equivalent of a 33MHz 386), and the A600HD has a hard drive

The new machines with their AA chips will jump all over SVGA PCs in terms of graphics, and if, as suggested, they are based on the 68030 chip, they will also compete in terms of speed with even the fast 486 machines given that the Amiga's operating system is so much more efficient than Windows

To lend some concrete perspective to the issue of whether it's worth selling your Amiga for a PC, we'll be looking at both machines from the buyer's point of view and giving our verdict. Look out for the head-to-head heavyweight bout in a forthcoming issue.



plan for the development of the Amiga (ditto).

The official reply to any probing on Commodore's future plans is that "Commodore will continue to develop and improve the Amiga", which can mean

almost anything. What in effect has been happening over the past year is that CBM have realised the Amiga's seven-year-old design is lagging behind the competition and have attempted - to their credit - to tweak the old design while waiting for the develop-

ment of a new range of machines. These machines, with vastly improved graphics and faster processors, should be on sale before the end of the year, and should be compatible with any software which works on the ASOO Plus, so don't despair of your existing software collection.

AS90 20Mb hard drive is, I'm afraid to say, lamentably out of date in any case, but your modern will work with the new A600 as the machine has exactly the

same serial port as the older Amigas. Problems with compatibility are inevitable when a design is changed, but I think we would have a lot more to complain about if Commodore sat on their laurels and made no attempt to bring the Amigg into the 90s.

Baffled beginner

I am writing as an Amiga owner of some three years, but I have only just started using it as a computer rather than a

games machine for my kids. I recently left HM Forces and returned

to my UK address from Germany, where Amiga mags were in short supply. Over here, there seems to be a multitude of

choice, though your magazine seems to be the closest to my requirements for an Amiga magazine, and I thought the CoverDisk was useful.

I am trying to come to terms with CLL directories, and so on, and I'm having problems copying things from disk to disk. Also, the NClick program on a recent CoverDisk looked very tempting. but will only work with Kickstart 2.0 or

> you recommend a similar program for my 1.3

Amiga or do I have to upgrade my system? I was especially pleased to find your beginners' section, but as I have only just

started buying the magazine I seem to have jumped in the middle of things. Can I get some back issues to solve my problems? I would also like to subscribe to your useful magazine. I'm not thick, but I find that I keep hit-

ting problems and I do not know any other Amiga users who could answer my day to day problems. If you could help I'd be grateful.

Dennis Bates, Widewell

To take out an Amiga Computing subscription, find the double page subscription offer in the current issue and all the information you need should be there.

As for back issues, you can usually pick up the last six months' worth by filling in the back issue form. This floats about a bit, but can usually be found towards the rear of the magazine.

NClick as you found to your chagrin, is a Kickstart 2.04 program, but there are

plenty of anti-click programs for older Aminos in the public domain.

Turn to our Public Sector column, find a PD company advert containing a few utilities disks, then phone the company to confirm that they have a general disk containing such a program. The added advantage is that you'll also receive a disk packed with useful utilities.

Bob record

miga software compatibility, I th evelopers should look back or rammer called Bob Dinnern as written code which

t's also possible to install it on hi drive. Less talk and more compatil ity with all 680x0 CPUs and ha

ervice which provides full programs uides (written by the Amiga's design to belo movid incompatibility or gure

are houses.

In any case, system legal code imost impossible when the copy prote ion breaks every rule in the book, an most commercial software houses have

Whither the A530?

I am a new user of the ASOO Plus and have added a second drive and some more RAM. Now that I'm reasonably familiar with the machine and the operating system I'm planning to do some more serious programming, and to this end I thought I should get a hard drive. After a careful examination of the adverts in your magazine,

I decided on the GVP A530, which seems to offer the kind of performance I'm used to at work where I use fast PC clones. I ordered the item on May 31 from First Choice Computers, having seen their advertisement in the June issue. They telephoned me the following day to say that the A530 wasn't yet

available in this country but should be here in three to four weeks. There wasn't much choice but to wait After four weeks and still no AS30 I called again, and this time they told me that not only hasn't the unit been released in this country, it still hasn't been released in America.

I strongly object to companies advertising products that they don't have in stock and have no immediate prospect of stocking, had hoped that practices like these had died out since the days of Sinclair and the QL. Meanwhile, I can only wait until the manufacturer and distributors get their acts together and supply their customers Nicholas Redgrave, Clevedon As you pointed out, many advertisers have featured the AS30 and auoted retail prices, not just First Choice, despite the fact that the item is not in stock. Our advertising people are aware of the problem and will request that advertisers make clearer when a product is actually available You seem to have been lucky in your choice of retailer, as the

company went to the effort of phoning you immediately to inform you of the problem, but all the same the situation should not have been allowed to arise in the first place. It is up to the consumer to check with a company about availability before placing an order or sending money, as even when

buying older equipment the company could have sold out since the advertisement was placed and be waiting for another If an advertisement strikes you as particularly unfair or mislead-

ing (not criteria which I'd apply in this case), you should contact the Advertising Standards Authority (071-580 5555) and lodge a complaint.

This body has the power to crack down on advertisers and is always the best bet if you want the company involved to sit up and take notice.

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AC Music

f you've been holding your breath for the release of the AD1012 and its 16either be a very peculiar shade of purple or perhaps even pushing up the daisies. After almost a year at the "shipping soon"

stage, the 12-bit variant has finally hit the stracts

Before the inevitable dive into the board and its attendant software, a brief overview is in order for those unfamiliar with direct-todisk recording

The primary aim of any DTD system is obviously to enhance sound quality, but this is only the tip of a rather complex iceberg which includes SMPTE time code and virtual memory - both essential elements in order to take full advantage of such technology

Substantial

Although 12-bit sampling sounds uncomfortably close to the Amiga's 8-bit internal quality, there's a substantial difference between the two.

To provide an analogy, 8-bit sampling is akin to AM radio or alternatively the sound offered by 8-bit long distance digital phone calls, while 12-bit is much closer to FM radio or cassette tape. As you're probably aware. 16-bit is the ultimate format offering true CD

A slightly more technical explanation concems the signal to noise ratio (SNR) of the various formats. At best 8-bit sampling has a theoretical maximum sine wave of -48dBs, while 12-bit manages a much improved .72dBs, with 16-bit stretching the average sine wave to the limits of the human ear at



Pick the destination disk of your choice and the buffers and you're in bu 96dBs. The software which accompanies the

board is called Studio16. As the name suggests, the software is a generic program which works with both the

Like most modern Amiga software, the program employs a modular design. As a result, the first requester to greet any would-

be user is the "Instance list". This shows all the available resident modules. Alongside this is the module library where you can select additional modules which can then be added to the "Instance list" -

upgrading made easy.

form of amplification, sampling is simply a matter of loading the meter window and either the transport or recorder windows -

via the Master preferences. Once defined, vou're ready to record.

If the monitor option is selected, the incoming signal will already be displayed on the analogue, digital and graphical displays

Incoming From either the record, transport or mix-

ers you can adjust the gain of the incoming signal to provide the perfect input and out-

Once satisfied with the various levels, filter settings, and of course sampling rate, This can then renamed if necessary and

assigned to an appropriate channel for playback From then on, adding more samples Full four-channel 12-bit playback where the power of the aforementioned

transport controls comes into its own. If you've ever used a four track or almost any analogue recording equipment, the phrase "ping-pong recording" will be a familia

Basically, "ping-ponging" allows you to mix any existing samples with each other. or as part of a new sample. Once mastered, new super-sample, thus freeing the remaining channels for fresh recording

Using this approach, huge sounds can be built up in stages. And of course because you're working with digital rather than analogue information, there's absolutely no sound degradation, no matter how many times the component samples are

The only restriction is the fact that all dubbing is destructive, so if a remix is required the original component samples storage until you're absolutely happy with

As you can tell, recording and mixing is very simple but it's by no means the limit of Once a sample is recorded it can be highlighted within the "Openlist" and edited via its own sample editing window.

based sampling software like Audition 4 or perhaps Audio Master 3, Studio16's editing window will be like home from home

The usual range marking, cut, copy, and advanced features such a scale, flip and beautifully implemented and extremely easy to use, sample editing does suffer badly against existing 8-bit sampling software. Unlike its 8-bit counterparts, there are no

FX such as flange, chorus, echo or even pseudo-reverb, although strangely enough from a separate module. Unfortunately these are completely inde-

pendent from the rest of the software and cannot be applied to the samples themselves. This is a real pity as the effects pro-



After a long silence, SunRize have finally burst into song with the AD1012, the Amiga's first direct-todisk recording system. Paul Austin lends an ear and the odd opinion

disk

wided are impressive but unfortunately very limited as far as serious application is

Although editing and effects are limited, this is made up for by the program's excelent sample sequencing capabilities. Unlike is 8-bit counterparts. Studio16 has a much more professional and flexible approach to

the problem. Aside from the audio in and the audio out on the rear of the board, SMPTE timeande has been catered for which gives a and indication of what is sure to be the 4D1012's main market.

Although a very respectable addition to any music system, its mono-only output does limit its appeal to the Midi fratemity. but mono only is much less of a problem to the videophiles out there. This is where the board's SMPTE compatibility comes into its

Cue list

Thanks to the SMPTF in on the rear of the board and the "Cuelist" within the software itself, an unlimited number of samples can be assigned to specific timecode

main-

mples

tures.

low is

inde-

As a result, any would-be user need only mip his or her tape with SMPTE (LTC) imecode and send the subsequent signal

Assuming the selected samples are assigned to the appropriate point, doors would then slam right on cue and floorboards wouldcreak in unison with the foot-

steps of the heavy breathing assailant. What more could a would-be Hitchcock want - four channel of simultaneous outout and frame-accurate synchronisation to hoot. Not had for a board and software

Essential investments

The list below shows the average storage consumption of the AD1012 at various sample rates. It's worth bearing in mind that a sampling rate of 44,100 is the industry standard for CD, so anything in excess of that is in effect a waste of

Sampling rate	Space for 1 minute	Space for 30 minutes
10,000	1.1Mb	34.2Mb
20,000	2.3Mb	68.7Mb
30.000	3.4Mb	102.9Mb
40,000	4.6Mb	137.4Mb
44,100	5.1Mb	151.5Mb
50,000	5.7Mb	171.6Mb

on-board. Because of the speed and storage requirements, the perfect system would be a high speed working drive with printips an oppication of RBIO as secondary torage device which you cre attorn could be ported to and from as required. At less immediate but equally important investment in some form of optimising software such as Quarterback Took which can be used to de fragment drives when excessary. All DTD systems are very read write intensive and as a result files soon become fragmented throughout the disk.

combination costing £399 plus VAT, My only complaint is that the board and software combination can only read rather than write SMPTE timecode This is particularly annoying as the pro-

gram generates its own internal timecode

in order to sync the "Cuelist" and as a timecode source with which to communicate directly with Bars & Pipes professional Because of this rather annoying over-

sight, any would-be user must first invest in a SMPTE generator in order to initially strip tape prior to synchronisation.

A similar problem applies if you're planning to sync Midi information with the output of the board. Again an SMPTE generator is essential to strip the tape. In addi-

tion, a Midi-to-SMPTE converter is required to link the sequencer, recorder and AD1012 together.

 Tune in to next month's Music Almanac for a more detailed look at the SunRize and Bars & Pipes combination.

The SunRize AD1012 is available from: Price: £468.82

The Bars & Pipes bonus

To be fair, the Midi syncing situation isn't quite as painful and expensive as it may first appear - if you're willing to invest in the system's musical associate, Bars & Pipes Professional. This is the only sequencer with a direct

connection to the SunRize hardware/software combination. As part of the Studio16 package, a selection of additional tools are provided which can be dropped directly into the Bars & Pipes Pro tools box and consequently into the pipeline within the

Thanks to Studio16's internal SMPTE generator, Bars & Pipes Pro can sync directly with the "Cuelist". As a result, the output of the board and Bars & Pipes Pro's Midi output can be directly synced without the need for an external SMPTE signal. As a result, it's possible to cue samples to specific Midi notes allowing a perfect

combination of samples, music and video - assuming the sync is provided from the video source. Yet another handy option is to sync an entire track or even tracks to the Midi output. Thus analogue specialities such as qui-

tar solos, acoustic instruments and vocals can be added to the Midi output, providing a pure digital recording from start to

Although both the software and the output of the board are impressive, there are a few niggly points which do tend to overshadow an otherwise excellent

First, the inability to write SMPTE timecode does means additional expense, as indeed does the lack of any direct Midi connection, which necessitates an investment in Bars & Pipes Professional as the only compatible connection to the world of Midi music

For the home recording enthusiast, the board is nevertheless an ideal budget introduction to DTD recording, its only possible from GVP which is due for release around

Video is where the board really scores highly and when combined with SMPTE compatible DTV equipment it becomes the ultimate format for synchronised special effects and Midi-generated music.



just a small selection of the impressive array of control windows on affer from Studio 16

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ne of the most messed about vet least utilised, drawers on any Workbench disk is the Prefs

As it offers a multitude of twiddling and andom clicking apportunities to the new user Prefs is often one of the first stons for the experimenting beginner. The problem is that few users make the effort to systematically configure preferences.

This month, we'll take a look at some of drawer, paying particular attention to Binrichench 2.04 (or 2.05 for A600 owners)

Most beginners have this version and its preferences options are so much more diverse than in Workbench 1.3. If there is enough demand, we'll return to Workbeach 1.3 prefs some time soon

As usual, start by booting from the Workbench disk, but this time we'll ignore Shell completely (hurrahl) and go straight to the Prefs drawer.

When this opens, the WB2 user should be confronted by a choice of no less than 2 individual programs rather than the sindie prefs program on WB1.3 disks.

Standard tools

The Input program is the first we'll look window which appears contains settings for when used, and as these are the only standard tools for communicating with the Amiga, tweaking their settings can be a

First in line is the mouse speed bar. This controls the speed at which the mouse pointer moves across the screen, and can be set from 1 (fastest) to 4 (slowest). Changes are instantaneous, so adjust the setting until you're happy with it.

Now look at the toggle box just below the slider bar. Clicking on this box will enable mouse acceleration, making the pointer move at maximum speed for the east desk movement.

For disabled users, turning mouse accelmouse action which is easy to control Again, disabled users or those with stiff or arthritic fingers may find it impossible sometimes to double click fast enough for the second click to be registered. The third Input pref setting can be used to extend the time limit within which a second click

the time down to a second or less, but for less nimble fingers the delay can be set to below this slider

Probably the second most useful prefs unit is the Printer program, controlling

many of the parameters which determine how printed output will look on paper. The default settings are good enough

for most tasks, but with a little thought some pretty varied results can be achieved.

MMPP from the Amiga Computing CoverDisk, utilise Workbench prefs settings ple, if the AIBB4 documents from this dard prefs settings, they would cover many pages of cut sheet paper To speed printing and save paper, espe-

cially if continuous stationary is available ("fanfold" paper), the user should change print pitch to 15-fine, spacing to eight lines per inch, print quality to draft, and paper type to fanfold

The resulting printout will be harder to read, but will cover far fewer pages and will print a great deal quicker.

The Printer program is also where users select the dreaded printer driver, which has to be done properly if printers are to work as they should.

Adequate

will suffice, but users of less common printers, such as the Canon BI10, will have to change driver.

To change printer driver, simply copy the required driver to the DEVS Printers drawer, then open the Printer prefs program. The list of available drivers can be found in the top left corner of the window, and all the user need do to permanently change driver is click on the driver

Fast mouse users are advised to keep

On the subject of drawers. Stevie Kennedy expresses a preference



name then select Save. Copying printer drivers to the correct drawer is the only part of the exercise which can cause problems, but many programs now do it automatically.

For those experiencing problems, a standard command line to copy a printer driver might look like

COPY OF1:DESS/PRINTERS/EPSONS TO though the location of the required driver

As supplied, the WB2 Extras disk has a fairly good selection of printer drivers to choose from, so the Drivers directory on this disk should be the first port of call for users there, such as the Canon BJ10 driver, it may be available in the public domain

Next up on the Prefs tour is the Font program. New to WB2 is the facility to choose almost any font for display options including icon names and window titles. Though initially appearing a little frivolous, an experimentative user will quickly find out how The Amiga's standard display font is

called Topaz 8, and it's one of the unlest

fonts in the history of fontdom. Topaz 8 was chosen not for its aesthetic value but its relative clarity on an 8 x 8 pixel character display. With WB2, the user can dispense with Topaz and select something a little more pleasing to the eye.

This includes the outline fonts. Times and Triumvirate, which can be scaled to any size and are very clear and easy to read.

My own personal choice for a non-interlaced Workbench screen is the DPaint 8 font, which is chunkier and more businesslike than Topaz, or Times 12 for Interlace screen Times can be found on the WB2 Fonts

disk, and the DPaint font will be on the DPaint disk distributed with just about every Amiga. To copy the DPaint font to a W82 boot disk, type:

MAKEDIR FENTS: DPAINT

The user should then type FIXFONTS to update the fonts directory, and go back to Prefs to select the font for use.



ACEmulation

The Amiga is an ideal tool for many tasks, and excels in areas where the PC and Mac have yet to applications for which the Amiga is not best suited, and it is in search of these that some owners have forced a crisis of identity by turning to emulator cards for greater compatibility and flexibility

sible to cram two entirely different computers into the Secondly, the emulator card will normally make use of the resources in which the owner has already invested

criteria (see box). The two latest emulators on the Amiga scene have been a long time coming, and both have been flagged by their manufacturers as powerful, cheap

386SX offer the latest in shape-changer technology. Both take equilation at least a rung or two up the power ladder, bringing Windows 3.1 to the PC wannabees, and Quark Xpress (albeit in mono only) to the Mac admirers.

They also offer something which no previous emulator has managed - it is quite possible when using either card to forget that the machine is actually an Amiga, a trick which must surely be the stiffest test of any gender-bend-

This is not to say that both cards come up smelling entirely of roses. They don't, and a few stinkweeds remain which any potential purchaser should be aware of before shelling out for either emulator, so bear in mind our three criteria for success as we take a closer look.

Dopplegangers

Vortex GoldenGate 3865X

Development was started on the GoldenGate card before the price war of the last year or so forced PC prices to fall faster than British industrial output. So vicious has been the competition

between Intel and AMD for the chip market that 386 chips are in danger of appearing now possible to pick up a 386SX machine with VGA colour monitor, 40Mb hard drive, 2Mb RAM, and Windows 3.1 for about £800 including VAT.

This sort of financial lunacy poses a bit of a problem for the Vortex card when our third question is put to it. Is it an economically viable solution?

GoldenGate retails for £499 including VAT. For this the user can expect a 25MHz

hehind in some software areas.

the PC is Superbase Professional 4.

Why emulate?

DTP packages such as ProPage and PageStream, though superb in their own right, are limited to mostly

mono DTP because of the Amiga's obsolete graphics

standard (soon to be rectified by the AA chip set, I has-

design, the Amiga cannot compete with Adobe

Illustrator 3.1 (Apple Macintosh) or Corel Draw 3.0 (PC).

Amiga has nonetheless a great deal of catching up to do in some respects, and for those who wish to take a short-

Still the king of DTV, ray tracing, and multimedia, the

386SX with IDE hard drive interface, 512k RAM (640k available in PC mode in a 1Mb Amiga), and the option to install a co-processor flongy drive controller, and up to

Expandability is certainly not a problem for this card, but if the end user's central consideration is mainly of the green folding variety, the decision to opt for emulation rather than a complete system becomes a matter for delicate judgement.

Technically, the card is excellent, and works a treat when simply plugged in and used in one of the Vortex supported video modes In mono VGA, even on a standard moni-

tor, the display is clear and crisp enough for Video refresh rates in these modes are

pretty good, which is what you'd expect coming from an Amiga chip set rather than a cheap VGA card, but after

Touchy question, that one. To answer it, one must first more colour, and this is swallow one's pride and admit that the Amiga is way

where the Amiga's unique talents come into play For example, possibly the only piece of business soft-To fully implement the ware available for the Amiga which matches the best on card as a Windows runner. I

scrounged a Trident 1Mb floppy from ZCL, plugged the video card into a spare PC slot, and the floppy into the GoldenGate, then scrounged a 105Mb hard drive from our incredibly defensive systems manager, about getting it back in one piece after the test (you'll be The latest emulators offer real alternative computing. Stevie Kennedy investigates the shape changers



lucky, mateyl). With this kit tell you how I rigged up the hard drive for fear of incurring installed, the A2000 began to look very full, especially as it also contained an accelerator card and a hard drive in the second 3.5" bay

Housing shortages meant the 3.5in high density PC floppy was forced to slum it in the 5.25in bay, where it was perched upside down to avoid shorting, and I can't

the wrath of the little fellow's legal Suffice to say that with an already

expanded Amiga, the emulating user can rapidly run out of room. Without the additional hardware, however, GoldenGate will never realise its potential. This is the





drive, repartitioning it, then backing it back up, but has one crucial drawback - it

crunchy bit in the middle of the Vortex soft My own recommendations for the minimum viable Windows setup would be a 40Mb hard drive, VGA card, VGA monitor,

4Mb RAM, and at least one 1,44Mb floopy. The card will access Amiga floopy drives as if they were 720k PC drives, but the speed of the floppies is much reduced, and as most PC software these days is supplied on 1.44Mb high density disks, a PC floppy

If bought with 4Mb RAM (about £140 from most PC suppliers) and a floory cont. troller chip (£39.95), the board price comes to around £680 which, as it nucludes hard drive and VGA costs, is fairly rerious money.

Anyone looking for a new markine will merefore buy a standalone unit rather than the Vortex. However, a PC emulator is not designed to compete with cheap PC dones. The user who needs both Amiga and PC software to get the best of both worlds in one box will still find the GoldenGate an attractive proposition.

Purrs Once installed and accompanied by the

Suppy drive and VGA setup, GoldenGate mums along nicely, and the only problem I incountered during setup was with the tomes hard drive "file" method. The only amblem, perhaps, but a right royal pain in he nether regions all the same.

Two methods of using Amiga hard mes are allowed by the Vortex software. The first is to simply take over an entire This is fine if the user has an 80Mb or

add-

te will

alrely or I suffic

war hard drive with enough room for a amable PC partition, or even better if an mine drive can be set aside. The other method is to create a huge file on an Imiga partition and force the GoldenGate

The first method has the advantage of mening a proper hard drive to the system, has the disadvantage of requiring a mit ready to hand. The second method saves the user the

music involved in backing down a hard

Fair enough, the GoldenGate setup program will create this false hard drive as long

as there's enough space on the Amiga hard drive to hold the size of file that's needed, and MS-DOS will format it as if it's really drive C:, but when running any kind of software off the "drive", the most pleasant thing one can say about it is that it provides endless opportunities for a cup of tea. Or perhaps a walking holiday in the

Unstable

Himalayas.

I tried for a week solid to force Windows to run from a 10Mb "file" hard drive, but failed, failed, and failed again. Adding 4000 buffers (taking up 2Mb of the Amiga's RAM) speeded things up a bit, but the file method seemed just too unstable for the sort of disk-intensive work involved with

When the 105Mb hard drive was used instead, a second problem developed. My old ICD Advantage 2000 hard drive controller seemed not to want to work with the board. Changing machines to an A2000 equipped with an IVS Trumpcard met with more success, but the Setup software still seemed confused as to which partition was called what I ended up using a partition which the

Amiga thought of as DH3, but which the GoldenGate variously recognised as DHO, DH1, and DH3, presumably depending on

Niggle My only remaining niggle is, again, with

the software. Microsoft serial mouse control is emulated via the Amiga mouse, but when I set up Windows with the MS mouse driver on a separate VGA screen, I had serious problems with the mouse capture screen. Mouse capture, when activated, takes all

mouse clicks and applies them only to the PC screen. However, despite the fact that my copy of Windows was properly set up for the MS mouse, and the GoldenGate software likewise, I was forced to turn mouse capture off before the mouse would work in Windows. This brought on a ridiculous situation

whereby the mouse clicks were being registered by the Amina and PC at the same time, and when the mouse pointer strayed outside the Amiga window, deselecting that window, the mouse instantly froze on the PC screen.

A quick look back at the Amiga screen to reposition the mouse did the trick but it was all too easy on click on the mouse capture window's close gadget, which irreversibly locked out the mouse from the PC. This happened half-way

through the design of a beautiful 3D icon which would. I'm sure, have been a masterpiece had I not had to re-boot Vortex have a good record with

software updates, and regularly reiigged the software for the 286 Allonce card, so I'm sure the problem will be sorted out quickly, but for the moment this simple little bug makes using Windows a real hassle.

This is a real pity, because GoldenGate makes for a canable PC, fast enough to run Windows software at an acceptable speed and very stable if used with its own hard drive.

The card's own IDE hard drive controller is the best solution to the storage problem, and will enable the

user to make use the cheap and compact IDE drives of the kind used in the A600 and PC portables

Take the card's decent speed, its RAM sockets, the floppy controller, hard drive controller, and co-processor socket, and you have a neat PC on a card. When the software bugs are ironed out, and I'm sure they will be given Vortex's record with the ATonce 286, GoldenGate will be a hard act to follow

Overall: 7/10

GmbH Supplier: Silica Systems (081-309 1111) Price: £499 basic board. £39.95 for floppy drive

controller chin Trident 1Mb SVGA card and TEAC 1.44Mb floppy supplied by ZCL Ltd Phone 0543 251275 for local dealer information

At level Mindows 2 11 Many values do 4 do

Horm... a quick game of solitaire

e Option Window St.



Amiga Computing October 1992

AC Emulation

AMAX II+

The original AMAX II emulator caused quite a stir among Amiga users and journalists when it was first released, indicating just how many Amiga owners are secret Mac adminers.

AMAX II+ (AM2+) is a much enhanced product capable of better performance blow some heads off. That it doesn't reflects the different Amiga market in the

The card is released at a time when proportionally far fewer users cringe in envy at the sight of a Mac Plus, the machine AM2+ is designed to emulate, so it has a bit more convincing to do before it can attract rave write uns

In addition, both the Amiga and the Mac have ensconced themselves in the

Building bridges se Amiga 1500/2000 range hold

rd Amiga peripherals. In addition to see, however, there are also a few slots which, when used with a dgeboard, can accept peripherals

of the Amiga's dual purpose PC s. When installed, the card car imunicate with the Amiga and ge" between two mai ch would briefwise relief to the other even if it were on fire foldenGate works as a brief and, and as a result can ac iga RAM, floppy drives, and ves. The original Common VGA cards, PC RAM exp

video and DTP niche markets respectively. For these reasons, the potential AM2+ purchaser would have to have solid reasons for taking the emulation road.

Luckily, AM2+ doesn't need to try too hard to impress. Installation is much easier than when fitting aided 🚅 GoldenGate immeasurably by the sim-

Simply plug the board into a Zorro slot install the software and click on an icon. The only problem some users might find before AM2+ is up and

ple and elegant software

running is the relatively difficult process of finding Mac Plus 128k ROMs. Apple aren't particularly fond of these emulator chappies, and do their utmost to stop the supply of ROMs to end

When the AM2+ box is open, purchasers should find a list compiled by the UK distributors. Entertainment International, of a few known ROM suppliers. I borrowed mine from HCS in Swindon

before the board arrived, but the punter can expect to pay about £90, a cost which should be born in mind when assessing the value of AM2+

Options When the setup screen appears, several preferences options are available to the

user, including video and hard drive selections It is possible to run Mac emulation in either standard or interlaced resolutions, though interlaced is easily the best choice

for potential Quark Xpress users. Hard drive selection is a little trickier. The user must type the name of the AMAX driver which corresponds to his or her hard card into a string gadget, then choose a partition for use with the Mac.

I suspect that it's supposed to work the other way round, but the software never seemed able to get its head around my partitions until I'd fed it the driver information. Arrayay, AM2+ has the major advantage

over its predecessor that it will use any Amiga hard drive partition and format it as a Mac partition. It doesn't support a "file" method like that used by GoldenGate, but this is a blessing rather than a curse as the latter method works slower than an asth-A neat trick employed by the card is that

it will recognise and use Amiga floppies as if

they were Mac floppies. This is no mean feat, as Mac floppies work in a very different way and also have motorised eject. To get over this, when removing a floppy from the drive under AM2+ emulation, the user must click on a small drive icon at the top of the Desktop

screen which tells the system a disk is being removed. The method works but I found I reqularly forgot to click before ejecting, thus confusing the system and prompting a host of annoying "Please insert volume Untitled in drive" messages.

Possibly the biggest advantage of going for Mac rather than PC emulation is that the Mac uses the same family of processors as the Amiga, which means the card itself depends on the Amiga's CPU.

Multitasking is therefore out of the guestion, but if the card is used with an accelerated Amiga the Mac side will make full advantage of the faster CPU.

System 7

Being a little slow, I wondered for about half an hour why the Mac refused to budge when used with a 68040-based Amiga. until the systems manager told me only System 7 (the latest version of the Mac's operating system) fully supports the fastest processors. This brings me to a single flaw in the AM2+ System 7, like so much new software, is

supplied on high density disks. For the moment, there's plenty of stuff still available on single density, but the rapid conversion of the Mac world to high density is happening now, which puts AM2+ under pressure. The Commodore 1.76Mb high density

drive is "soon to be released", and when it does AM2+ will be ready and waiting The software supports the Commodore drive as if it were a Mac HD floppy, thus

// Max II



saving the user's bacon. but don't expect the new drive to be

In use, AM2+ is stable, easy, and virtually transparent to the user, which is what a Mac should always be. The only glitch found was with a couple of mouse types. especially the optical kind, which didn't seem to have the resolution to move the pointer fast enough. Other than this, as long as the AM2+

user is content with mono graphics, the card is an excellent piece of equipment which won't cause any problems on the technical side Unfortunately, emulators have to be

judged by our three golden rules, and AM2+ fails slightly on the first question. It is powerful enough to run Mac software, especially if used with an accelerator

card, but one must remember that when colour Macs appeared, the Plus sank with out a trace and Quark Xpress found a per manent home on the LC and Ilci machines. Colour DTP is what the Mac is all about

and even though Quark is still arquably the best DTP package available on micros, it isn't all that much better than PageStream when used in mono You pays your money and takes your choice, though at the moment AM2+ is the only choice for Mac fans. With no competi-

tion until Emplant comes along, it is fort nate that it's a nice piece of kit. Speed: 8/10 Overall: 8/10



Supplier: Entertainm International (0268 541212)



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All Hi

Saddam false alarm

I always check every single disk I get with two virus killers. Virus Checker 6.05, and Nuke 1.3b. Virus Checker gave the OK to your August 1992 CoverDisk on all aspects, but Nuke claims that it is contaminated with Saddam.

I have visions of the field day your competitor' are going to have when they announce the fact, a bit like page ten of your lanuary issue, where the Amign User International Saddam vinus was reported

Nuke 1.3b states that Saddam is present but, and this is a big but, it still states Saddam is present even after it has repaired the disk. Now I know Nuke works, as I have used it to remove viruses before, and when repaired they were

This has led to on to a couple of long still none the wiser. Perhaps you know? Perhaps this is a new strain, or maybe Nuke is mistaken?

The answer to your apparent problem is that Nuke 1.3b is completely mistaken there is no trace of the Saddam virus on our August CoverDisk

To check this, I took a CoverDisk fresh from the front cover of the magazine and scanned it with the latest version of Virus Checker, Nothing.

I then examined the Disk-Validator file where Saddam will lurk once a disk is byte identical to a "clean" disk validator I keep in a virus killer directory for this

Next I compared the CoverDisk's Disk-Validator, Nothing, They were as different as chalk and cheese, with the Saddam file's characteristic appearance dard AmigaDOS file To test Nuke 1.3, I copied the clean

CoverDisk then checked the disk with Nuke, Hey presto, Nuke decided that the totally innocent file was in fact quilty as charged, showing its inability to properly check the files it is supposed to make its Why Nuke decided to pick on what is

an entirely virus-free CoverDisk I can't imagine. Either the program is just plain old garbage, or it has a problem with the low level structure of our CoverDisks. which are duplicated in a non-AmigaDOS commercial duplicator envi-

The latter is highly unlikely, so my depending on this erratic checker for perfectly good defence against the beast.

Printer out of puff? Computer cracking up? We're here to help!



Write to ACAS, Amiga Computing, Europa House, Adlington Park, Macclesfield SK10 4NP

Save your saes - we can't reply personally

Sampler plus Midi

I want to get into both sampling and Midi, and already own OctaMED Professional v3, Sequencer One and Soundstudio, I also have a Casio MT-640 keyboard which is Midi-compatible, but I gather I need a Midi interface and a

I would like to make a noise such as a cough and play it back at different pitches using the keyboard. I would also like to use the rhythms on my keyboard with my voice using the sampler. Would this mean I would need a Midi interface and sampler together?

Can I get a combined Midi interface and sampler for about £40 and can you recommend a good one? Do I have all the software I need, and will my printer in the parallel port cause a problem?

Also, is there any way to connect my electric quitar to my computer? Will my 1Mb Amiga be enough for these purposes, and is the MT-640 up to the job? I am an 11-year-old schoolgirl, so I want to spend as little as possible.

Moushimi Saha, Wimbledon

The AMAS sampler is probably the best bet, as it combines a sampler and a Midi interface in one unit. However, it is rather

ble if the guitar is Midi-compatible. If it is not, the best you'll be able to manage is to sample the quitar and play it back on your MT-640.

There are devices available in the newfessional music market to convert quitar pick-up signals to Midi data, but these are

prohibitively expensive (about £300). The MT-640 should be capable of most Midi tasks and will serve you well as you learn the ropes. The Amiga should also be good enough for most sampling tasks though don't expect to record massive high frequency samples with only 1Mb of

RAM crash

During a bout of programming with Devpac 2 last week, my Amiga 500 suddenly gurued and crashed! Weird, I thought, because it had never crashed so unexpectedly before. To my horror, the machine refused to reboot again without crashing!

I removed the external floppy and hard drive to see if that cured the problem, but to no avail. It was only when I removed the half megabyte trapdoor expansion that the problem cleared.

Off I went to the local computer store to buy a new RAM expansion. I plugged it in, switched back on, and... crash! Same result again. I modified the circuit board and fitted a fatter Agnus chip about six months ago to give my Amiga 1Mh chin RAM. This coupled with the fast RAM in the hard drive has been working fine until now. I can use my Amiga with the half meg

chip RAM, but the extra does come in useful, as does the clock. Please can you help?

Andy Sells, Doncaster

You don't say exactly what modifications you made to your motherboard, so it's

Style printing

I have recently bought an A600HD, but I'm more used to the Apple Mac and have an Apple StyleWriter printer.

My query is whether there is any way for the Amiga to drive the StyleWriter which is, I understand, based on the Canon BI10 and ought in theory to be

I imagine the connecting link would be the problem

expensive at £79 (Silica Systems 081-309)

A cheaper combination might be the

Technosound sampler from Trilogic (0274

691115) at £37.99 and a Trilogic Midi

Interface 2 at £26.99, Either way, you will

As far as connecting your guitar to the Amiga is concerned, this will only be possi-

find it difficult to keep to a £40 budget.

Richard Laing, Colchester

ht you are! The StyleWriter uses an RS422 interface on a 9-pin mini-DIN rather an the 25-pin R\$232 you'll find at the back of the Ami Making up a cable could be a problem, but if you can lay your hands on the pin-ou

diagram for the StyleWriter and refer to your A600 manual for the Amiga R\$232 pin

The printer driver might cause problems, but as you say the StyfeWriter is based on Canon printer, so the shareware 8J10 driver presently doing the rounds on the PD I wouldn't put money on the success of the undertaking, but for the outlay involved in making a cable, it's worth a try

ACTechnical Help

Which card?

I have a revision 6.2 A1500 with FCS and Kickstart 2, 8Mb RAM, and a DataFlyer hard card with 100Mb NEC D3855 hard drive. Can you advise me on the best accelerator for my setup?

I'm not satisfied with the standard 7MHz 68000, and would like an accelerator to speed up DPaint IV, Wordworth, Vista, and games designed for a quicker CPU, such as Links.

Looking through the magazine, there seems to be a vast range to choose from, though a 14MHz 68000 is definitely out of the question, and I really want the best around. A 28MHz board (or faster) that's easy to fit and easy to set up with a 68000 fallback mode would be ideal.

I read somewhere that for an accelerator to work, there has to be a super fast hard drive fitted. My DataFlyer is a workhorse rather than a racehorse, so do you think this will be a problem?

Also, I have read that accelerators need 32-bit RAM, floating point units, and maths co-processors, is this correct for the uses I have in mind, and maybe a few I haven't got round to yet?

P Ebbans, Walsall

As you say you want the best, and as you already have Kickstart 2.04 installed, I would recommend a 68040 accelerator. Under Kickstort 2.04, data cache copyback made works very well and your system's speed will be unrivalled.

You seem, however, to be a little con-Floating point unit (FPU) is just another way of saying maths co-processor, and the 68040 chip has one built in. Most 68030 cards are supplied with 68882 FPU chips on-board, and if you intend to run number-crunching applications such as Vista this facility is essential.

The DataFlyer interface, though not blisteringly fast, should be fine with most hard drive you could even decide to drop from a GVP combo card, which will have

This will mean settling for a 68030 (the A1500/2000 68040 combo isn't yet on sale), but the speed of a SCSI drive

My advice would be to go for the Progressive Peripherals 68040 card (phone Marcam on 0604 790466) or the on 0203 471111). Both run at 28MHz and both are easy to fit.

The price will be £1,000 or more, but for this you get unrivalled speed and 4Mb of 32-bit RAM.



difficult to know what might be wrong. If you have used a 1.5Mb RAM card with Gary adaptor and connection to JP2, the problem could be one of shorting between two of the IP2 pads.

It is more likely to be a problem with the Gary adaptor or the actual trace cuts made in the motherboard, however, as you say you don't experience the problem when the trap door is not in use.

If you have followed one of the daft DIY motherboard conversions presently masquerading as hardware projects on bulletin boards and the odd PD disk, you have only yourself to blame.

In this case, any modifications made to the motherboard should be reversed and a more recognised upgrade method, such as the 1.5Mb cords with Gary adaptor, should be used The Agnus chip can't be to blame, nor is

the problem likely to be found with Gary, though the latter is possible. If you have doubts about either chip, try to find an accommodating friend who'll allow you to test their chips in your machine Alternatively, have the Amiga looked at

by a professional repair company.

Scraggy screen I have an A500 fitted with Kickstart

2.04, 8327A fatter Agnus, and 1Mb chip RAM. I also have an external disk drive and a Protar hard drive (with its own PSU) containing another 1Mb

My two problems concern screen display. I find that graphics on-screen waver a bit which is made worse by games using overscan. Secondly, the screen sometimes

becomes corrupt, especially when scrolling text on-screen or slowly moving chunks of graphics as in the The corruption can normally be recti-

fied with a screen refresh, but this is not always possible. I have a feeling that these two problems are connected and I suspect the problem could be the Amiga's PSU or the Agnus chip. What do you suggest I do now?

Philip Chung, Cheltenham To test for a dodgy PSU, remove all the

Wrong Kickstart

My daughters have an Amiga 500 with \$12k memory upgrade, and recently the were given the three Workbench disks for the Amiga 500 Plus.

were given the three Workbench disks for the Amiga 500 Plus.

My questions are – will they be able to use the disks safely in their Amiga? If
not why not? Can the Amiga be upgraded so that they can use the disks, and is ot, why not? Co worth the cost

Mer S O'Horo Burnie

Your daughters' A500 sounds like a standard Kirkstart 1.3 mochine, which means the Worklevech 2.04 disks will not boot as the most recent version of Kirkstart (version 2.04) is resulted.

To opposite group can either joins our are advertises. The complete list costs £60 and you by a ficklished principle and the principle and the principle and the principle and an approximation of the installer by bill be desired the BOMI things excellent Analogous groups and a fail set of efficiel Worksheerk 2.04 deliks. The chily allows and the first, and oct cost by 46.00 by you'll have no manuals, and Estings it will still mean opening the Annips and swepping cybin. If you've serious doors the Annips and waveping cybin. If you've serious doors the Annips and word like your despites to learn more sobout the openings system; if go for the efficial like, lit my case, if your Worksheed, 25d delists are copies, no adminish how them in the fast pilice.

held in text and screen buffers, but this is peripherals presently attached to your Amiga and load Wordworth. If the screen way difficult to check. The best you can do is run Systafo or sover works fine and text scrolling likesome other memory testing utility to wise, the problem is probably not con-

check the integrity of your system's memcaused by damaged chips Don't blame your PSU. As the hard drive has its own power supply, the origi-

nothing more than 1Mb RAM and an external floppy, which is well within its In any case, the PSU will not interfere

with your screen display, and low power more often than not causes a total crash rather than slight graphics problems.

MultiDOS mess

nected to the Agnus chip.

If the problems persist even with the

hard drive and so on removed, try replac-

ing the Denise chip first. This is cheaper

than the Agnus, and as Denise is largely

responsible for display and switching

Quite possibly, the problem is totally

unrelated to your motherboard chips, as

damage to either Agnus or Denise would

tend to cause gurus and boot-up prob-

lems. Your chip RAM could be a bit

fritzed, leading to the corruption of data

screen modes, it is a prime suspect.

A friend loaned me a PC PD disk, and I installed MultiDOS on my Workbench disk as per the instructions in your magazine, then mounted it. When I put in the PC

mpty window.

I then used Show/All Files from the
Mindow menu and a lot of tool icons the male daily! Was above the programs to run. The Shell com-mand Execute returned an error when I tried it.

As you are running Workbarch 204.

As you are running Workbarch with most disk operations such as DIR, UST, and so on, and you say that More will read the PC Ascil files. However, users of

Unfortunately, when MultiDOS is run ning on a Workbench 1.3 machine, i crashes whenever a DIR command i many other AmigaDOS disk command but without DIR many users have foun the program less than completel

For those users. MessyDOS is still the

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THE GENLOCK PEOPLE

RENDALE 8802

£139 -

The Rendale range of Amiga Genlocks begins with the 8802. This is a Genlock, which, when attached to an Amiga computer and a suitable video system, will allow you to mix video and computer graphics. It offers all the functions that you need, such as:

* BGB feed through, allowing for a preview monitor.

* High quality output video, which in default mode provides video with overlaid computer graphics.

RENDALE 2202 FMC £178 -

It can be supplied with a device which will allow you to fade between computer graphics and the video source, and also a mode control unit so that you can move between Amiga only, video only, background mode and keyhole modes 1 & 2

RENDALE SUPER-8802 £499 -

The Rendale Super-8802 is a development of the basic 8802 unit, it performs the same functions, but has the added capability of also working with Super-VHS signals. The unit will allow the user to cross fade between the Amiga and video signal. In addition, some basic wipe patterns are provided, and also a fade to black option. Mode control is also provided via hardware.

MEM RENDALE FMC £45-fitted

8802 FMC Unit

This is a brand new piece of kit which will improve the capabilities of the popular Rendale 8802 Genlock. This unit allows you to cross fade between the Amiga and video signals, so that you can gently fade computer titles in and out. Also, the ability to switch between the various modes offered by the 8802 is provided. The required mode is selected by a push switch, giving smooth, flicker free transformations.

The FMC unit does need to be soldered into the 8802, we can do this at our factory if required.

8802 UPGRADES

£45 -£400

UPGRADE PATHS

Rendale Genlocks are designed to be flexible, and the ability of your Genlock to grow with your system was deemed to be of paramount importance in our design process.

As a consequence, existing 8802 users can follow one of two upgrade paths. The fade and mode control unit (FMC unit) can be purchased independently, and fitted to your 8802 genlock by our engineer. We would only require your unit for around two days.

The other upgrade path is the move from a purely composite 8802 to the Super-8802. This can also be done simply, although we do have to perform the upgrade work at our factory. We would only require your unit for around two days.

s little as six months ago, realtime colour digitising was an expensive business with the only paratively expensive ICL ColorPic and SuperPic range.

However, during the intervening period the options and quality have expanded enormously. The undoubted leader in the Geld has to be Vlab from Amiga Centre

Unfortunately Vlab is of no use to the hordes of A500 users out there, as it requires an A1500 or above for installation Consequently, there's still a sizeable hole in

the budget market which Datel have spotted and are hoping to exploit... Through-port

The hardware itself is a combination of a colour splitter and the digitiser, linked via a through-port and cabling setup. The new duet is then slipped into the side slot of the machine with the option to install a hard disk on the side of your new accessory.

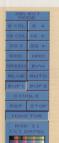
Unfortunately our resident HD8+ didn't actually fit in the slot provided. As a result, be sure to check compatibility before making the investment.

The digitising element of the partnership is a fairly bland vanilla box with two knobs on the rear for the adjustment of brightness

The splitter on the other hand has a colourful array of adjusters for saturation plus individual RGB levels.

The only limiting feature of the comprehensive image adjustment options is the software's insistence on only monitoring on a quarter-screen 32-colour image.

As a result, accurate adjustment, whether



The control panel is friendly



VCR or camcorder signals are accepted.

The majority of program options

emanate from a control strip on the right of

the main screen interface. From here all the

program's basic options are on hand allow-

ing either single frame capture or a continu-

As mentioned above, there's also an

Variety of Formats

data which can then be viewed and subse-

quently saved in its raw form or converted

into a variety of colour formats including 8.

8+, 16, 16+ B/W, Ham, Red, Green, or Blue.

The conversion only applies to the on-

screen image. As a result, the various colour

options can be interchanged without affect-

The formats offering a "+" merely imply

that dithering is employed to enhance

image quality. It's a real shame that this par-

ticular feature hasn't been applied to the

Aside from the variety of available formats

the unit also boasts "double buffering".

Basically this means one image is held within

the digitiser's own 8 x 128k static RAM

capable of storing a 256 x 256 15-bit image,

while the second is stored within the

In order to apply the second buffer, the

stored data within the digitiser must be

transferred by the Auto button, although

machine's own fast memory.

ing the original data.

All images are imported as 15-bit raw

ous full screen updates.

grab.





ver. this not up to

Snapshot special it be through the digitiser or splitter, can be a tricky business. The only real method of ensuring quality results is good old trial and Once the hardware is happily entrenched in the side of the machine, the next task is to add the essential video source via the RCA/phono connects available on the rear of digitiser. As you'd expect either composite

Paul Austin examines Amiga Colour Digitiser II, Datel's latest adventure into the everexpanding field of real-time colour digitising

option to activate a quarter-screen real-time once transferred the option to view in the monitor. When the appropriate moment available primary colours is lost. arrives, grabbing can be activated, instantly The Single capture automatically snap replacing the monitor image with the new

shots the current incoming signal while the Repeat option activates the continuous update mode which automatically replaces the current image at a rate of five frames per

As you'd expect, there's the usual array of IFF options including 15 and 24-bit. With images being imported as 15-bit data. though, at best I can only assume the 24-bit option has been added to allow compatibility with other packages.

In addition a basic selection of processing effects are on hand which allow image inversion, positive to negative, reversal, vertical and horizontal compression, screen clears plus an option to add on-screen time and date information to the captured

Although the real-time grabbing and attendant software are as fast and friendly as any on the market, the unit suffers badly on the versatility front.

The main problem is the maximum image size of 320 x 320. In today's market, less than video resolution simply isn't good enough for many applications and the omission of interlace is a real problem that detracts badly from the otherwise impressive image quality.

For those interested in PD-style digitised animation and standard DPaint-guality art it may well find a market at a price point roughly a third that of other full colour real-time systems. Nevertheless in comparison to Vlab - a system at a similar price point - it's definitely found a little

Animation is where the system could score. As a result, watch out for next month's update column as AC looks at Amiga Movie Maker. This is an additional software package

that allows real-time sequential grabbing of up to 500 frames at a maximum of 15 FPS.

Amiga Colour Digitiser 2 is a product of Datel Electronics Address: Govan Road, Fenton Industrial Estate, Fenton, Stoke-on-Trent ST4 2RS

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AGPD and Shareware

Order v1.7

17 Bit. disk 2050

From South Hams

This is a rather simple but nevertheless useful database. Indeed, something this simple may well be a godsend for many tasks

Completely keyboard controlled, it allows up to seven fields (name, address, phone number and so on, for example) which the user can define the length of. It has simple search functions, and files can obviously be saved to and loaded from

If all you intend to do is keep a record of your LP collection, or your mates, or your business contacts, doesn't it make sense to use an offering like this rather than pay for the many features you'll never use with a full priced package? Me thinks so. Although this program is not the final world in user-friendliness, it you have used a database before you'll have little trouble getting to grips with it, and it comes firmly recommended.

Baldy 17 Bit. disk 2051

Coded by P Jenkinson

As far as PD games go, this one is fairly typical - which is not to say it is bad. There are an assortment of platforms, around which you must jump your little fella by moving the joystick left or right, and press-

ing Fire to move up or down. While avoiding bushes and spectacularly unscary nasties, you must collect floppy disks to progress. As I say, pretty typical

From a music magazine to a cookery database, Phil Morse assesses this month's varied and frequently plain bizarre selection of PD

Frank Sidebottom Slideshow

17 Bit. disk 2046

From Zarch Productions Oh dear, oh dear, Out of all the disks which came in this particular bundle, I was looking forward to this one the most. Frank's self-

> JESUS!HAVE YOU JUST FARTED?

effacing humour, nasal and Northern as it comes, is right up my (cobbled) street.

So what do we get? Incredibly badly digitised pictures which look like they've been grabbed from a 99p, 14th generation video recording and then stretched until they are barely recognisable.

It's just as well a description of what's going on appears below each one. A consciously naff demo for a consciously naff comedian? Am I missing a joke here? I doubt it.





covers EP.

The sound quality is passable
the remix interesting – it's spread
across two disks – and the digitised close-up photo of what I
believe to be an iguana on the
opening screen as strange as
Andy and Vince themselves.

Oh, and I had a friend once.

Although my friend cannot claim to have give God a lift home, the white-bears one does crop up in the next offering, this time coming from a group called Complex (17 8t, disk 2064). This is a demo based around a gospel record which is, in itself, somewhat strange, coupled as it is with the lyrics on the screen, and a bouncy ball, Spitting Image-style, to

negry content them.

Look at those words: "The Lord will hit like an atom bomb,! When he comes, when he comes." Deeply moving stuff, I'm sure you'll agree, and almost as puzzling as the highly ridiculous Poo Folk (17 8t, disk 2045, by the

IM SORRY BUT I DIDNT THINK IT WOULD MAKE MUCH DIFFERENCE!

Some are mildly amusing, some are highly unamusing but one is absolutely hilarious – two, ahem, logs are chat ting, and one says... no, order it yourself and find out.

Protracker v2.2

17 Bit. disk 2042

Containing a full, working version of the above music sequencer/player, along with the latest version of Virus Checker (v6.6). a PC emulator (for which you will require your own MS-DOS disks) and the latest archiver/de-archiver, LhA (v1.32), this disk is a useful little collection of utilities

It is pretty user-friendly, with an opening menu allowing you to choose which program you'd like to run, and it even has background music, which I feel is a bit over-the-top for a utilities disk, but each to his/her own!

Custom Icons 17 Bit disk 2113

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Coded by David Ferguson This is a very useful little collection of icons, designed and coded by the author. and presented for you to use in your own programs

They are presented in various folders depending upon the type of icon on offer. from clock, disk and wordprocessor variants to a large file of miscellaneous offerings, ranging from the obviously useful to the slightly strange.

Although many of these icons display a scant difference from their neighbours, there is still enough variety to make the purchase of this disk worthwhile for anyone looking to give their own programming efforts an edge over the

Space Rescue

17 Rit disk 2111

Some games have it, and some don't, and this one certainly does. A wonderful, horizontally-scrolling Defender-type thing

Space Rescue shines due to its chunky, pleasing cartoon-ish graphics. What it lacks in speed it makes up for in looks - stars which scroll by at different

speeds. little landing pads to refuel on. clever and imaginative obstacles - all add a cuteness factor which more than makes up for the lack of 4 000 aliens on the screen at the same time.

What's more, this is highly addictive. due to the programmer thinking a little about the obstacles and puzzles which are placed in your way - when you mess up. you just have to have another go, because you've sure as hell seen how to do it, and you just did it slightly wrong last time...

In fact, you can even forgive the fact that your craft looks suspiciously like a helicopter without its rotor blades, crossed with a dead - ie horizontal - owl

It looks great, it sounds great, and it keeps you coming back for more. What else could a space hero ask for? A stormer of a game, and no mistake.



Cot anything worth reviewing) "Course you "ave, or you wouldn't be in business. So top pussy-footing around like a picture of apathy and learn positionism! Be a winner Stuff your latest into a light buse, including a hard copy detailing what is no which disks, and send the lot the me, Phil Moore, all Amiga Compating, Europa House, Adington PA, McKelchield SSTU 449-TV on Lawe only your chairs to lose.



Omega Race 17 Bit. disk 2119

Weirdos of the Month corner, this is

bizarre with a capital S and twice as weird again. Done completely in black and white, and utilising the simplest graphics necessary, this minimalist game is like nothing else I've ever seen. Take Asteroids as a starting point, add

a score-card which sits in the middle of the screen and around which you must manoeuvre your craft to shoot the, ahem, cog wheels, throw in some irrelevantlyshaped geometrical oddities and you're half way there.

Now remove all traces of logic and realism, season with a health shake of irrelevance, and you're getting close to what this off-the-wall oddity is like.

Needless to say, I loved it, and positively glowed with delight when I read that it took a year to program. Either the coders were extremely lazy (not necessarily a bad thing), or they were painstakingly particular about the most wonderful "Er, do you think this coa should turn

into a vector triangle when hit?" "I dunno, maybe - a three-sided spin ning boomerang?"

"Rrilliant!" If you smile at clumps of grass, you'll revel in this, and if you don't. I guarantee

you'll find yourself wondering where the hell the programmers are at more than you wonder about the game itself. On a different tack from normality entirely!

OctaMED Pro v4 Amiganuts

Coded by Teigo Kimunen and Ray Burt-Frost

Released this month, the latest version of this legendary and universally used Amiga music sequencer/player boasts many improvements, including a tidled up user interface, and the correction of most buas

It is probably the best program of its kind out there, certainly the most widely used, and is a must for anyone writing music for the Amiga - even if the Amiganuts demo tune supplied with it is more than decidedly dodgy





Amiga Musicians Freeware Magazine Goodies in this issue:

AM/FM Magazine & samples

rather splendid AM/FM musicions' maga-

17 Bit, disk AMFM 6

Amiga musicians have it hard, don't you think? Blessed with a multitasking dream of a machine when compared to the likes of the Mac. ST and PC, they've somehow been left behind the lot when it comes to widespread support

So it's nice to see a disk magazine put together by real music enthusiasts especially for Amiga owners. Each well presented and written issue of AM/FM comes complete with a disk of samples, which range from woodwind to horror to extensive sampling from top synths, such as the Korg Wavestation

Amiga internal sound freak, AM/FM is a welcome addition to the sparsely populated Amiga music support sector, With quality support like this, the argument for buying an Amiga to make yer' first number one with grows by the day.

Bon Appetit

17 Bit. disk 2012

Coded by Boris Shor This is a recipe database, which already contains details of 20 scrumptious snacks and delicious dinners. You can add and delete recipes, of course, build up separate

Where to get'em

Anglia PD, 115 Ranelagh Road, Felixtowe IP11 7HV anuts, 169 Dale Valley Road, Southampton SO1 6QX 17 Bit, First Floor Offices, 2/8 Market Street, Wakefield WF1 1DH

databases should you wish to, and the program gives you a respectable amount of control over what you do with your data once it's all tapped in. Although you can't tell it the equivalent

of "I've got two onions, some paprika, three slices of bread and some baked beans" and get it to search out all possible dishes for your tea (it'd take a miracle of the magnitude of the Feeding of the 5,000 to pathetic contents of my food cupboard), it will let you search the data by recipe name

and number, key ingredients or key words. For instance, "family" will bring up "blueberry pancakes", which seems a little strange until you read the recipe which informs you that blueberry pancakes are a good food for weekends, as "all the family can help to make them?

Call me sentimental, but I found this program kind of loveable, and should you be in the market for a cookery database, I'm sure you will too.

Classics Collection Anglia PD, 3 disks

It's retro-mania in the public domain at the moment. After last month's collection of arcade classics from 17 Bit, Anglia PD have weighed in with a worthy compilation collectively known at the Classics.

As with most PD collections, idiosyncrasies abound, but there are some gems in Disk 1 weighs in with Amigoids,

Twintris and Defenda, Guessed what they are yet, kids? Yup, it's those perennial hardies Asteroids, Tetris and, er, Defender, cunningly repackaged for the PD-hungry masses sick of the £30 per graphics-and-nogameplay sector. Twintris is a two-player version of the Russian teaser, but it's too slow to be challenging. Amigoids, on the other hand, is

rather excellent - a one or two player version of Asteroids which I personally think is much better than the oft-praised F-Type

In Amigoids, the rocks break up when you hit them, there are a myriad of player options available. and it's generally truer to the original, while avoiding the pencil-line graphics of the arcade version.

Defenda is the version which appeared on the AC CoverDisk a few months back, and what a storming, ultra-fast version it is For all those of you stupid on

December, buy this disk, if only for this game. With sound, graphics and gameplay this good, it's Disk 2 contains Scramble, Galaxians and Wobbly (or Mr.

Wobbly Leas vs the Space Aliens, to give him his full title). Scramble featured on the 17 Bit disk reviewed last month. Galaxians is a pretty typical

cory of the original, although the sound of smashing glass when you blow up an alien is rather disconcerting. As for the opening screen buy it and believe it. Sad is the word Mr Wobbly Legs is a Space Invaders

hybrid, where you have to run the gauntlet of alien bullets to collect five stars in order to become a "first class nilot". A bit like working for MacDonalds, when you come to

Once fully qualified, you can zap the nasty little greenies to kingdom come. It's quite a laugh, if only for the animation of Mr. Wobbly Leas' leas

Finally, disk 3 contains Missile Command and Megaball. Megaball is Breakout - you know, a wall of bricks and a bat and ball - but it's got so many options (including an editor if you register) that it stands out from the crowd very nicely indeed.

Missile Command sets you up as defender of several cities, as missiles come in at random from above. Hell, you know what I'm talking about - this really is to computer games what the Citroën 2CV is to cars - simple and very, very old but still absolutely brill (he said, admiring his from the office window).

Overall, these three disks offer excellent value for money, and should parallax scrolling, multiple 14-ways animated sprites and telepathic user interfaces be stressing you out, why not order the lot and settle back for some good old-fashioned blasting?





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MORPH FOR YOUR MONEY! NSTOPPA vent out ta shape. REVIEWS... PLAN 9 FROM OUTER SPACE • GUY SPY · CRAZY CARS 3 · CARL LEWIS CHALLENGE · MEGATRAVELLER 2 ALSO ... LOTUS III AND JAMES POND 3 PREVIEWED! . BUMPER CHEAT MODE EXTRA

word

Ooh! What is that rancid stench?

Enchanted, I'm sure...

Monkey Island 2 was a bit good. But how long can it retain its throne? Not for long if those scamps at Core Design have their wicked way. For Curse of Enchantia is an icon-driven adven-

ture not a million miles from the secretive primate game. The story tells of how a coven of greedy witches were betrayed by a particularly nasty witch, and tricked into opening a portal between Enchantia and their own dimension. From Enchantia she kidnaps an Earth child to complete her

rejuvenation spell. You take the role of the little nipper and must help him to escape from the witch and save the world on the way. The game features PC-quality

graphics, ace animation and a nice smattering of speech. Cursing and enchanting starts in late September, but they haven't decided how much to charge you for it yet. Probably about £2.50, 1 should imagine.



Hot news on the Gremlin front, kids. Lotus Turbo Challenge 3 will be on the streets before you can say By jiminy that was quick". We'll be reviewing that next issue, it was going to be this issue but time was against us and it's been

So next month it is. Stick around for that. Other Gremlin games to look out for include Nigel Mansell's World Championship, Daemonsgate

1, and Hero Quest 2. The Nigel Mansell game looks to be a sort of arcadey

version of Formula 1 Grand Prix and it'll include all sorts of options to tune up your car. Part strategy simulation and part arcade driving game, really. And Gremlin should know. They're very good at this sort of thing. Out in November, with the price to be

Daemonsgate is part one of an ongoing RPG saga, with over 50,000 screens and

Socks and Thistles

over 100 intelligent game characters. You can control eight adventurers, who go about their own business when you're not telling them what to do and another 32 characters can be

recruited and abandoned at one stage or another. It sounds a bit big, does it not? Out in December at about £34.99. Talking of RPGs, Hero

Quest 2 - The Legacy of Sorasil is pencilled in for a November release. Another of those evil forces has taken over the land and adventuring we must go. Unlike its predecessor, this one will feature different terrains, new character classes and computer characters designed to help or hinder you. Gremlin describe it as a "step upwards and sideways" Sort of a diagonal sequel then.

Mindscape show us their tips

Are you the sad sort of indi-vidual who's hopelessly stuck in Mindscape's Legend Region in manascapes Legend RPG? Are you, in short, a bit like the Gamer team? Well then, help is at hand! Following the success of their Knightmare hint book, they've put together a simi-lar tome for Legend. It con-tains maps, spells, hints, tips and songs. Very nice for a sing-a-long.lt costs a highly reasonable £6.99. Give 'em a bell on 0444 246333 to find out more

Beasts, nobs and Arsenal

Thalamus, the only software company who's name is almost an anagram of "musty liama". have got some promising titles in that old proverbial pipeline.

Beastmaster is an arcade adventure about a crisp beat-'em-up shell. It also boasts a 3D "into the screen' play area, and a sort of 'moon and

Plus, if you can find a clever camouflage cloak,

Arsenal is a football game about Arsenal, the only football team to have a vaquely amusing ment side-salad. Loads of stats, and some guite tasty graphics if these are anything to go by.

platform to platform eating ants and spitting them He looks very similar to that crap blue anteater

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Pistachio Nuts!

Another World, A creamy game and no mistake. And you'll no doubt be plad to hear that Delphine have been computing over hot beavers. I mean beavering over hot computers to bring you a follow up.

Flashback is the title of this wee throbber, and the story goes like this - Conrad B Hart is a scientist, a bit like Lester in Another World, Howsour Conrad's research reveals that extra terrestrials have infiltrated Earth by imitating high ranking humans.

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The aliens suss out Conrad and have him committed to an institute for hothersome scientists. His memory is erased and he has a small pistachio nur Sellotaned to his left elbow, for no obvious reason He escapes and sets about trying to regain his memory. Unfortu-

nately, the aliens strike again and shoot him down over the Titan moon. Can Conrad survive the jungles? Can he find his memory? Is there really a pistachio nut Sellotaped to his left elbow?

Flashback is due in "late 1992" from US Gold and should set new standards in all round software pleasantness

Also from the Goldsters is Street Fighter 2. We strongly suspect that this might be a beat-'em-up. Don't ask us why, it's

Frm include as yet, so let's make one up. Cheesy lim the renowned ninia has had his milk stolen from the doorstep by fiendish garden birds. And now he's mad. So he sets off round the world to beat people up in every country so he can, er, avenge his lost dairy products.

Apparently it's going to be a pixel for pixel copy of the arcade machine with eight characters to choose from. It'll be out in "the last quarter of '92", which means it's going to be an Xmas release, right kids? Look out for it then, and keep an eye on those



Goodbyeee, Goodbyeee

Yes, goodbye dear readers. I, your ever-loving Gamer editor, have decided to fly the coop and make my way in the big, bad ld. It's been a fun year, but the time has come for me to ve on - just like The Littlest Hobo, that crap dog who befriended deaf children and then broke their hearts by run

ning away again at the end of each episode Who will replace me? Who knows? Who cares? Sob sob. It's just like Casablanca, I'll still be about, contributing the odd review from the mists into which I'll be stepping,





CAMER

INNER VISION

Hairy monsters skulking about the place...

Ov Carl! Dare you to knock on Old Mr Smelly's door and run away

After Benny Butcher, Harold High-CourtJudge and Leo Lollypopman comes another man named after his job

A page packed with nudey pictures, just to get your attention

PLAN 9 FROM OUTER SPACE......14

It's Mega! It's a traveller! And it's camping on Farmer Palmer's

TENNIS CUP 224 Ben gets all grumpy at another French game. Kids, eh?







ONWORD

PSYCHEDELIC BEETROOT

THE SOURCE 10

Monkey Island 2 - the bits you've all been waiting for!

MINDSCAPE * £22.95 * 1Mb * Keyboard/joystick * Out now



ut captain, she's held together with tooth-paste and bogies, she ne take no more."

in he take no more.

Come on now all you programmers ut there, isn't it about time you contracted on playability rather than etail? In about a year's time there re going to be flight sims where ou'll have to get your pilot dessed the morning and send his kids off

After getting the kids off to school you'll have to drive your car to the air-field only to find that your plane hasn't been built yet, thus you'll have to build your plane out of Hope and

If you are a generally impatient erson like me, then you most proba-ly find games with too much detail



ferent "theatres" as they are called

feront. Theatest as they are called that you can take part in.
There is the computiony Persian (and without which at the flight into the last year or so wouldn't have existed. The Old Dog your gest is as good as simel; and Reef Flag. Basically a theater is a number of missions geared toward the political climate of the ext. Sub-Persian Guiltante of the ext. Sub-Persian Guilt theater entalls bombing the buggery out of everything that moves and a let of things that don't and the Old Dog involves an ageing Digby.

oog involves an ageing Digby.

Each theatre has eight missions which you can take part in. Once you tave chosen a mission you get a quick

briefing and off you go.

After choosing the mission you must choose your weapons - a bomber's not much sodding good without bombs, is it? Wow man, the armoury is avecome - every postible type of bomb you could think of - but neasly control tower, so you m hoose the missiles vaguely suited

Once you have chosen your mission ou have to fly the plane – bit of a ain, I know. You can choose from a umber of views, such as the main ockpit, the co-pilot panel, comms and













external view.

So first off, you'd better start the plane, really. Now I know that I'm not exactly the Red Baron, but I still wouldn't entail much more than a sim-ple twist of a key and pushing a few

But no, procedures for starting the plane on Megafortress just about stop short of chanting, drawing penta-grams on the floor in chalk and

Acronautics.
It's all turning on batteries, flicking switches, levering levers - oh, the thrill of the chase. But eventually you will get the thing in the air and off into the great blue yonder.
The detail is a little over the top

but flight sim fanatics will lap it up. The different scans and radar are very convincing. It even has the view from the cameras on the bombs, which is a

One of the features that I most

liked about Megafortress was the mouse control. On all the old flight sims, when you lifted the flaps or something, the lever or whatever

something, the lever or whatever moved on the streen, but on MF you actually move the thing with your mouse instead of using the keppad. From the pilot's view, you control most of the plane's movement. You cursor keps are generally a lot better. From here you cand oo things like identify yourself before you rown

before your own guys blow you out

not quite sure what.

If you like flight imm you will enjoy
this game, but then again if you like
them to be graphically amouth and
speedy this is definitely not the game
fer you, and if you don't have a hand
fer you, and if you don't have a hand
then you're really knackened.
It tried to play his without a hard
drive on an unexpanded 500 and if
was diabolical - very single ion you
click on birings the old please insier
did had had had. "In minute at that
and was fill in the single control of
a single control of
its missing the graphical speed
of simulation games:

would really have to scrutinise the manual quite hard - there were loads of little buttons and bells that I'm sure did something, it's just that I'm

fegafortress, but it doesn't do any-hing new for flight sims. If you like em though, you'll like this one.



















You boy! Stop doing that in the sand pit



Oh goodness! Someone's shot the high jumper! Extraordinary!

The javelin is even harder with a spirit level balanced on your shoulder

is illegal, Stop It

THE

Insult your fave athletes, by jingo

CHALLENGE

PSYGNOSIS • £25.99 • 1/2 meg • Joystick • Out now

arl Lewis Challenge, eh? Sort of 'step outside Carl, I reckon you're crap', perhaps? Or maybe, just maybe, this could be a sports game to cash in on the Olympics? Not that I'm sick to death of the bloody

Not that I'm sick to death of the bloody Olympics or anything. Well, OK, so I am. You see, as I sit writing this, the Olympics have just wheezed to a halt. And they really are pointess. All bloody day on every channel you could

All bloody day on every channel you could watch Brazil and Poland battling it out for the Gold medal in weightlifting. Well that's just soooo relevant to my life.

Gold medal in weightliting. Well that's just sooo relevant to my life.

I don't care who's the best at Judo in the world. Especially if you have to watch BBC! until midnight to find out. And who won? Which country got the Olympic prize? Nobody. Because there isn't one. It's pointless.

And crap. And I don't like it. So there. So can Carl Lewis Challenge help alleviate my Olympaphobia?

No. It's crap as well. Which is very, very worrying because Psygnosis should know better. So here's what Carl Lewis Challenge entalls, and just why it's so Silton-like.

There are three ways to play the game. There's a management option where you set the training for the Olympic Squad and then just watch them compete. Boing. There's an arcade option, which we'll come to later. And there's the "proper" game which is a mix of the two.

The arcade bit then. Well, it's a waggler. Sort of. You can actually choose the control method, so if you can't stand waggling you can use the rhythm method instead (srigger). This is, to be honest, a very nice idea. It's just

a pity that no matter how you control the game, it's still gubbins. The thing is, if you opt for 'rhythm' then you have to concentrate too much on the 'rhythm-o-meter' and miss your case to a me burdles and still' Thoughtiess.

The problem here is size. You get five events, but they're so similar that you feel really chosted. There are two running events, 100m and Hurdles; a throwing event, Javelin; and two jumping events. High and Long Jump. All of them involve waggling for a bit and

you opt for a different engaging or as to be pressing fire at the appropriate time, unless you opt for a different control method in which case its pressing fire in time to a moving meter and pressing up every so other. It just conjures up all those Olympic images doesn't it?

It suffers from exactly the same problem as Anuaventura a few

as Aquaventura a few months back. It's a tiny game made to look bigger by repeating everything over and over

Reff Illegal use of springy shoes!



Good rossing tane and crowd cheers spienty.

Dull, repetitive, unimaginative and ultimately pointiess.

32%

again. You get to do each event five times, fact

Four qualifying heats and the finals. Lose one of the qualifying rounds and you can't enter the finals. It's really saying something that we were actually glad to fail events so we wouldn't olar them about

we were actually glad to fail events so we wouldn't play them again.

The two-player game won't let you race against each other, and at the end of your ordeal you get to see all the scores and a nice.

Game Over, Well thanks a bunch.

The graphics are digitised, but lacking any character at all (no faces you see) and the animation is at best stitled and at worst (on the high jump) something the kids would do on

A pathetic attempt, really. Dig out your old Specty and play Daley Thompson's Decathlor instead, believe me it's the superior game. Five samey and record-breakingly difevents, held together by a simplicit, difmicly "management" aspect and a

bit of old masking tape.

As a budget game this would be crap, as a full price it's abysmal. That's two strikes in a row. Psygnosis, What's





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Splat! Squelch! Rsssp! Daniel Whitehead bends it every way he can as he looks at System 3's Silly Putty game...

small problem...

They only work during the day. As soon as night falls, they shut down



their 'common sense' circuits and start milling around like, erm, a bunch of millers. Naturally, in this state they tend to fall off their platforms and die in no uncertain terms. Put it down to youthful exuberance if you like but if all the robots kill themselves, the tower won't get built hemselves, the tower won't get built

forever.

But, charging through the mist on a white charger comes Silly Putty. Tarantara! By making the most of his putty-esque qualities, Silly can save the robots, the tower and thus Putty

exactly?

He can stretch for one thing. A bit obvious, but he really can stretch. Sper-oling he goes and elongates himself up, down and left and right. None of this "out of reach" gubbins for this fella.

He can alto jump by sort of com-























m

athletic, he squite and as well.

Not and as in "someone left the lid

Not and as in "someone left the lid

off the Plasticine and now it as all

officed up but and as in "don't mess

pack quite a points and you the bud

goys possiting the plastforms.

And if thats rue enough, stilly

Patty can turn himself into a smart

beam by pumping himself up to

titaline proportions and then explod
ming exterywhere. Vocastes. But Still

go exterywhere. Vocastes. But Still

Putty's greatest power is his sponginess. By scrunching down flat and hen sort of siturping up around an object, he can absorb it.
This comes in very handy for coltial for helping the robots. The only way to be sure the robots make it to the exit on each level is to absorb them one at a time and carry them to the exit.

However, if you take a hit while However, if you take a hit while w ∯on toooo

their one at a lime and carry shorter the forcers. If you take a bit which forcers is you lose the pace for indirect and have to on legals. Take or an arrival and above to on legals in the you have the same and th



tickling fashion. Hex certainly one of the more interesting characters to come out of competerson. And what of the game? As I said before it contains a lot of elements. Not quite a platform game and not quite a platform game and not quite a platform game, but a stary and world land brist the two.

The start of the competer is the competer is a proper of the competer in the competer is a proper of the competer in the competer is a proper of the competer in the competer is a proper of the competer in the competer in the competer is a proper of the competer in the competer in the competer is a proper of the competer in the compet

whole new ball game. System 3 are already boasting that Silly Postry is going to be the most original game for a long time. And it is not hard to see why. It certainly looks promising and its come a long, long way since the early demo verticion. Silly Pathy is definitely one to keep the complete of the complete of the lift of the complete of the complete consession between this lister and the next, to well be giving it a review then. Boing!









FASCINATION

DIGITAL INTEGRATION = £25.99 = 1/2 meg = Mouse = Out now thinking by those wonderful French people.

t seems like Digital intergration have managed to round up all the sad and unfortunate programmers in France to develop one of the saddest games I've seen. The French just aren't funny any more. The last game they produced that sticks out in my mind was Psyborg. Although it was a reasonably good game, it had a really bizarre

The story this time is about a new substance that has been developed. Apparently it will revolutionise the world of neuropsychiatry, but from then on it gets too obscure.

Amid the babblings of neuropsychiatry, they've managed to incorporate a randy air hostess called Dordlice who has inadvertently come by this wonder fluid - a bit of lateral

Which do we search? The ashtray, or the fu

copy of Playboy? I'm an ashtray man myself. And that's ly dog in

As if the compulsory stupid story line isn't enough we have to put up with the ridiculous French sense of humour, which consists of jokes that aren't even fit for Bob's Full

This game is from a genre designed for a special type of person - someone who has an unusual amount of patience. Like Operation Stealth and hundreds of games before it, Fascination is very slow to play.

I like to have things going on, which is why I hate playing flight sims simply because they are a waste of time when played on slow machine - the playability will be nothing like it should be.

In the first screen of the game there are some really blatant attempts to show off naked women. Pointing and clicking on the shower, for instance, brings you two or three very badly drawn frames of the lady in guestion showering her naked bod - believe you

ow where would you hide a vial of secret chemicals?

me they don't do it very well at all. The aim of the game is to get the vial of this fluid to a friend of the man who died on the plane. As you have probably gathered,

the gameplay is abysmal. It's a very badly done point-and-click adventure - you have the various options of use and take but the clues are just too obscure. Several entail you finding a certain pixel

on the screen. If you really persevere with it then maybe you could get somewhere but

Some of the clues in the game are just plain crap. Old Delores got the fluid from some old codger who popped his clogs on her plane. Before he died he said the combination to the brief case was... AAARGHI and

tion is. The clues that aren't crap are just plain tedious, like find the telephone book to find the number, snore, snore and so on. There's

promptly snuffed it.

one screen where you are in the pool, while yakking way to old friend Iwink wink) and you need to find a pendant.

To find it you have to turn on the pool lights so it glitters - obvious really. Now to turn on the lights you have to click on a single pixel in the corner of the screen. You can see why it gets so imitating. Graphics-wise the game

is quite pleasing, in the places where it's not UDIO

oo initating to play otes after the nut.

showing pictures of naked women. There are some effective moody shots of car-parks, dan alleyways and so on, but it doesn't make up

The single most irritating thing is the bloody awful breaks where Delores burnes in

to one of her old bed partners. They then launch into the most tedious predicable conversations you have ever heard. You thought the Eldorado script war bad - this is sodding Shakespeare in

comparison. One thing I look for in a game is a decensoundtrack, but apart from a short dodg tune at the beginning, Fascination has abso lutely none to speak of I'm just thanking mi lucky stars that they didn't digitise the speed on the conversations

Definitely a game for the sort of people who enjoy drooling over the underwear ser tion of Rackam's catalogues. If you're after a mouse-controlled adventure game then you're better off with Operation Stealth.

Better still sit in a room watching Eldoradi with a copy of the Sunday Sport. This month it's an over-sexed air hostess, next month in going to be a raving mad lony driver



12 GROWER October 1992

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s, dark ake un

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watching Plan 9 From Outer ta ha ha ha ha ha ha. It's quite crap, and possibly the funniest film ever And lucky for you out there in Punte land, it comes free (free) free) with Plan 9 From Outer Space - The Game, Well, not really free 'cos the game costs a hefty £35. but you get the idea And how crap is Plan.97 Here's a "do it yourself visual aid to help you find out just how embarrassing this movie is. Pop downstairs and have a rummage in the fridge Get some cheese, or if you haven't got any pop down the shops and buy some.

Now, wrap the cheese in a damp rag and leave it in the sun, or behind a radia-

tor. Leave it for six months. Unwrap the cheese and take a big sniff of that lovely aroma, Plan 9 From Outer Space is twice as neesy as that. Indeed, this could well be the only

game to actually have an excuse for being crap. Unfortunately, or fortunately depending on your point of view, Plan 9 - The Game isn't immensely crap really. But it's

Time to zip up our lycra Reviewer Man

take it that's a "No" then ha ha ha ha ha ha ha Sorry, you've just caught me



I'd like to thank the Academy...



The strange thing is, these you. Spooky or what?

FROM TER SPACE

GREMLINS = £34.99 = 1 meg = Mouse = Out now

have chosen to use the making of the film You've been hired by the producer to

it'd probably be better for all involved if the

your job a bit more difficult than the 'run

You start at the producers office and tually the six canisters of film

objects, that sort of thing. You know the

is severely limited, with maybe one or two

to do. For instance, there's a cigar box.

The same thing applies to far too many





in't fancy yours much



other objects and people. You want to experiment and try different things but the game just tells you that you can't. Very frustrating.

Let's face it, with those sort of restricbe a doddle. After all, with relatively little brain power you should guess what objects to get. But the game decides to scupper you once again by having far too

many instances of "sudden dearn" If you don't have the right object at the object at the wrong time, it can be game over without any chance to rectify your mistake. And if you forgot to save the

game then you're likely to rip huge chunks of scalp away in frustration Which, sadly enough, leads me on to vet another niggling little niggly thing. You can install the game with no fuss on your hard drive but when you come to save the to floppies. Kinda defeats the object of the hard disk really, especially when there's not from the original floopy disks. Grrmph.

much swapping Involved if you do play Now I know this is all sounding a bit neg-

ative, you must think I'm wearing my "grumpy trousers" or something, but that's Space has got all the gualities there's always

some silly little bug cropping up to spoil it Like the fact that sometimes the game tells you that you can't carry anything else, but if you buy something or find something while searching another object it goes into your inventory without any trouble at all. And when you drop objects

they vanish, so you've got Moan moan moan There I

go again, eh kids? If I sound a bit narked

only. Too sloppy for

ce cameos by the films of AUDIO

then it's because Lam. This could've - and should've - been a brilliant game. The graphics are good, there's a kitsch B-movie soundtrack and a few decent FX.

The licence has been dealt with in a fresh, and exciting way, and the humour embraces both the unintentional guffaws of the film and plenty of mickey taking at the film's expense. It's just a pity that the game doesn't

stand up very well as an actual adventure game. A sound idea, but fundamentally



ee, you're so flattering.

Hey, you look just like Richie Cunningham in Happy Days...

IOI MORNING

You're absolutely bonkers, Smashie

TITUS = £25.99 = 1/2 meg = Joystick = Out now

a crazy car? Perhaps it's a Morris Minor ging around bus stations

VW Beetles giggling at a rose

I mean do we really need another? Do we want another? After all, we've just had Jaguar XJ220 and that just wasn't different enough to make it a Lotus beater. And let's talk about that old

Why is everyone so determined to "beat" Lotus 27 Why not just admit that driving you're only going to be able to boast some Oh. so it's three frames faster than Lotus?

frames faster? I doubt it personally. But, for some reason, the well-monied

public seem to love splashing out on stuff they've seen before And so, will they get their money's worth



As far as map pictures go, this is a prime example

playability goes. I always found Jaquar too clinical. It actually looked and played like a 'soul' to the game, yknow? No worthwhile



ally. It's certainly better than Jaguar as far as

about the place. Boring, to be CC3 avoids that by at least

gal road race across America. each city, wager against the

other racers, win the race, colenough to buy your way into letting you win the big prize hirds Well, that's the theory at So you pick a city to race in,

according to how much entry fee you can afford to spend, and then huddle down in a dingy shed to bet on the outcome. Quickly leg it to the road and set off, racing against about seven or eight local racers.

Oh, and let's not forget the everyday drivers and the police. The innocent civilians still bomb along the roads at reckless speeds, but they only serve to get in the The police are a different matter entirely

attempt to pull over any car going too fast. This means you of course, but if another racer speeds past you then the police go

after them instead. If you stop when the police are on your tail, you lose the race and A bit pointless actually, 'cos nobody's

Wait a mo, there's a smoke signal on the horizon. It's from Kevin Costner. "What's it like then, this Crazy Cars III?

I'm just getting to that whippersnapper. It's not bad, if the truth be told. It's better than Jaguar because Titus have remembered to VISION East annually nice harlownesses but samey sovites

A hit more death racey sames. ADDICTION

ventually, but still

tacks a two-player mode which could've

made it a real stonker and a probable Lotus It's got all the necessary technical doo

Fast graphics, roaring engines and so on plus it gets the adrenalin pumping with the police up your burn, your opponent out in front and your Mum telling you to come and get your tea. Sort of.

And, hey, I'm feeling kinda mellow so I'll ignore the fact that it's criminally unoriginal in huge weeping pustulent sores, and say that it's quite good.

So if you want to buy it. I won't be very cross. In fact, I might pop round and have a game. Because I love you. Honest



It's the 'pedal to the metal' race home after a hard day at the office



Bet on how long it'll be before Michael Jackson's face collapses in on itself. Allegedly





K, how many of you know what a Traveller is? Is it a heavily unarmed person ns the home counties terro ing local farmers through the despica-ble tactics of driving a dirty bus within ble range of a rich person, or carry ing out acts of callous, premeditated

Nope, hands down all you Sun read ers. Traveller is the original sci-fi RPG, and MegaTraveller 2 the second computer version of that most loved and yed paper-and-pencil-and-crate-oflager-in-the-small-hours game. The orig-inal was one of last year's best RPGs. so the sequel has a lot to live up to.

Well, yes and no, though mostly yes. The player's initial impressions can be a little disappointing as the graphics aren't up to the standards of the first ne and the game itself has a less ntly constructed feel to it, but there ty of consolation features.

the ambiguous conclusion, but I don like to be tied down to these things.

The game opens on Rhylanor (sounds suspiciously like a certain

an a Hitchcock movie, improved gameplay and a healthy wodge of lasting appeal make this one a winner. Sorry about the ambiguous conclusion, but I don't in you might ni develop this character Hmm... clumsy, but a bit of a toff Nah, domo him!

North Welsh resort), where the local populace are threatened by a river of highly corrosive green slir pouring from the site of an ancient civilisation. Bleedin' archaeologists! They just wouldn't leave it alone,

would they? The planetary government, while assuring the people that this is merely a "blip" in their world's life expectancy, are offering huge rewards to anyone stupid enough to try to stop the slime, and that's where you come in.

You have 2,700 days (!) to find out what's going on, how to stop the slime, and why Jimmy Hill hasn't yet been melted down for scrap. As the

left out on a limb, the game has a hint function which will point you in the right direction if you get lost, so a ck stab at this has you looking for

the chief archaeological expert.

Trow Backett (for it is he) gives you a few pieces of equipment which I couldn't get to work (only got CSE Met-

party of brave adventurers is sort of

alwork Grade 4, I'm afraid), and point you in the direction of the library. This wondrous building has a com puter you can access to pull up info mation on just about everything (though repeated entries of "Jim ted no response other than "Classified"].

After ten minutes here, I'd discoered where all the other ancient situ

were - there are seven of them - and ded for the travel agency. The rest of the game is a fairly deep plot involving mega crime, mega corpu

rations, and not a few fire-fig shady characters and drunken Jimm Hill supporters. The action unfolds in nilar fashion to MT1, which m adually over a long period of time Gameplay has been developed qu

a bit since the original rather limits options of talking to someom scrounging information from the shooting them, then pawning the

Players can now buy items from NPCs, sell to them, or interrogate then



ed was obviously in a geometric mood





is that op taking



n planning is another area in







9999 No more or less than the average sci-fl RPG needs. Nice screams when someone dies, though PLAVABILITY

9000 Involved gameplay is sometimes marred by what can be a clunky user interface.

ADDICTION more addictive than HTS come in a swinge and is highly illega



(then shoot them and pawn their pos-sessions). Conversations remain a little ENTERTAINMENT INTERNATIONAL * £29.99 * 1 meg * Mouse/keyboard * Out now

one-sided (a bit like interacting with a wending machine), but that's to be expected with a computer RPG. Combat is the one major gameplay element which has changed drastically.

The original game gave the player very close control of each member of the up, which could be a bit of a drag

t sites - and

deep corpo-s with Jimmy lds in means me. I quite imited eone, them,

from

ring a long fight. In MT2, you simply tell the group to react to any situation, and when a thug starts firing on you they start firing back without waiting for the order

Reactions can be a bit OTT, however. I was trucking along in a grav wehicle in one city when a couple of local thugs starting firing at us.

They had no price on their heads and were therefore not worth killing. = I just swerved round a corner and ed off to the bar where I was told mexpert on the ancient sites could be

As soon as I stopped the motor and

opened the door though, my bunch of loonies decided to react, and charged of across four city blocks in search of the thugs.

In the resulting firefight, the doc was killed, and as he had been carrying a large part of the loot from a lucrative little business arrangement we'd just gone to a lot of trouble to set up, I was understandably a little

The PAL system is a

second major improvement in game-play. Whereas in the original game the player was forced to keep checking character skills to figure out who was best at what, the PAL system means that characters volunteer to lead the party when going into a situ-



ation demanding a particular skill. This means that if one of your charac-ters is good at gambling, he'll shoul-der his way past you and swagger into the lead when approaching a casino

It also means that when you get in

your spaceship, everyone scuttles off to the position they're best suited for, saving a lot of messing about.

You can turn both PAL and react off, but this is recommended only for intensely dull people who enjoy doing the same thing over and over

Overall, the sheer size of MT2 is a little daunting. There are over 100 planets available to land on, though some don't have cities on them, 40 wanted criminals for the bountyhunting player to practice murder on, hundreds of named individual NPCs, many of whom are vital to the plot and absolutely no risk whatsoever of

bumping into Jimmy Hill. Set this against a sinister river of green slime, a planet threatened with truction, and a plot that thickens like porridge on a window sill in Jan-uary, and you've got a computer RPG to keep you going for months

October 1992 GANER

Don Cheffing Town	Sen Phosphole Dity US HERRIN	Stoodaue Send Rengs tood
Z	×	V.
Crumbby Old Spice	Geoffrey	Very Sad Hen
DOYTOULTY: CASY	CONTINUE	TES CONSUTER C

In Victorian times, come supper-time, the family would nather around the plane and ting hymns



Peter Pan, the

Tinkerbell was

character of

based on

flag in front of them, to warn pedestria



VISION Nice map and, w nothing else at all. Just a man really. AUDIO 900

AYABILITY

Yery friendly to nizy

DDICTION

However, the lack of depth

has its own spirit, even digital watches

With a vo ho ho and a ruddy big axe, here come the...

KRISALIS = £25.99 = 1/2 meg = Mouse = Out now

hen you think of games about Vikings, you tend to conjure up images of vioots of violence. Big hairy men chopping people up type violence. Innocent farm animals fleeing in mortal terror sort of

And that's 'cos the Vikings feature at number 49 in the List of All Time Really Nasty Crimes Against Humanity. Fiftieth is the man who said 'of course you can have 400 billion pounds, go and make another It may come as a bit of a turnip then, to

Genesis album" find that Vikings - Fields of Conquest (to give it its full title) doesn't actually dwell too heavily on chopping people up.

There's a wee bit of chopping involved but it's surrounded by strategy and stuff. Which is a bit alarming really. You might just as well call the game Birkenhead OAP's idea in something more violent

But, to be fair, this game actually puts you in the place of an olden days lord, and asks you to build up your kingdom and repel the scummy Viking hordes

they? That's up to you, matey Jim. Select how many players there are going to be, trolled Vikings

Right, you start off with a home territory with your castle and armies in, and the adjacent territories are yours as well. Free. No extra cost, quv.

by turns. During each people fed, raise more armies, mine each territory armies into new territories and start work on new strongholds

your armies have invaded a new territory "blank" territory then you just have to duff up a few peasants to claim it, but if it's a rival territory then a slightly more tricky hullabaloo is in order.

If they run out of men before you, then

the territory is added to your kingdom and park your car in the city centre on a Sun-

Righty ho, criticism time. First of all, my infamous "grumpy bobble hat" for the bad points. Hrrmph. The whole game is run via hoves. And well. I found it all a bit boring. hour of going through the same routine every turn, my attention started to wander, I just didn't feel too gutted when I had to reach for the off switch to write the review.

Plus, given the aforementioned violence quota of Vikings and the olden days in general, the combat is a bit limp. You just watch two gauges, representing your army and

And now, my "comfy slippers" for the

the Commodore 64 loading screen that seems to have slipped in there. A nice "mappy" looking map and, er, not a lot else really, but the map does look nice. It's also easy to get into. This may mean

quickly, but for those who just want to date ble then it's just about right.

they're neither deep or very well hidden. See they're not really hidden depths are theil But you can quite happily fiddle around for a half hour or so, before you start to realise you've seen everything there is to see

Basically, Vikings is a fairly inoffension game. It's well thought out, and well imple mented, but it leaves you with a hollow feeling. Not bad as a sorbet to clear the use a seriously crap metaphor. Too limited I'm afraid.





October 1992



He's neat! He's nifty! He's been nibbled around the edges by specially trained puffins! He's Zool - Ninja Of The Nth Dimension. And he's here next month! Fly the merry bunting from the rafters!





The Gamer guide to



OK, you can start breathing again now. The saga continues – with able-bodied assistance from Mr M Farthing, we can now quide you to the end of Guybrush's daring adventure.

He insists that we must, however, also thank

Mr Andrew Winter without whom none of this would be possible 'cos he was Mr Farthing's co-pilot (or should that be co-pirate?) in this epic venture. So, without further ado, let's complete Monkey Island 2...

- Go to the bar on Scabb Island. Ask for a drink. Use library card as ID Buy Yellow Beard's Baby and Blue Whale.
- Go to the antique shop on Booty Island. Buy the ship's horn. Go to the Spitting Contest. Enter contest. Use horn. When judge leaves, pick up the marker flags.
- Use the two drinks with each other, use straw with new drink Enter contest again, spit when wind is blowing eastwards (watch
- the lady's scarf!).
 - The Winnaaaaah!
 - Go to antique shop and sell the plaque.
- Read your "Great Shipwreck" book and remember co-ordinates. 10. Get a leaflet from Kate, hire her ship. Select the right co-ordi-
- nates 11. Dive down to the wreck. Get the figurehead (the monkey). Use
- the anchor to get to the surface. 12. Go to antique shop and give the figurehead to Lovejoy, or what-
- ever his name is. 13. Dan dan diddly daaaaan! Map piece number three!
- 14. Go the bar on Scabb Island. See the piano? Use the banana on
- the metronome and pick up the hypnotised monkey. 15. Go to Phatt Island, use Kate's leaflet with the wanted poster. Go
- to Dread's ship. 16. Go back to the jail on Scabb Island. Release Kate. Pick up the

- envelope on the shelves and open it.
- 17. Go back to Lovejoy and buy his "Beware of the parrot" sign. 18. Use the bag of parrot food on the hook left by the sign. Buy the
- 19. Go to the waterfall on Phatt Island. Follow the path to the top Use Jojo the monkey on the pump.
- 20. Go to the waterfall again and go into the hole.
- 21. Go to the cottage. Enter drinking contest. Empty your drink or the tree. Use "near grog" on your mug.
- 22. Erm. I'm not sure we've mentioned "near grog" before but you get it from the Bloody Lip Bar if you can't prove your age. think. Or you may already have it. Experiment a little, OK? 23. Use mirror with mirror frame. Open shutters. Go outside. Use
- telescope on statue. Go back in and push the burned brick. 24. The dead dude should have the final map piece.
- 25. Go to the map-makers on Scabb Island and give him the magpieces.
- 26. Go to the VooDoo lady. Open the bag she gives you. 27. Row back out of the swamp. Open crate. Use the crate.
- 28. Time to kick some zombie pirate ass! 29. Head right and up the passage into the room with all the signs.
- 30. Go to front right passage and speak to Wally. 31. Go back to the room of signs and take the left back passage (snigger).
 - 32. You will be greeted with a number of carvings The head bone's connected to the... you did par attention during the dream sequence, didn't your 33. Well all right then, to get through the maze for
 - low this pattern go through the doors with these carvings next to them. "Feet, hip, arm Then "rib, feet, hip". And finally "head, rib, feet." 34. You should be at a large door. Push the little
 - doggy door and go through. 35. Make sure you take the matches out of the July
 - 36.Get the key and promptly get captured by
 - LeChuck. Boo, hiss and so on. 37. Use the straw with your magic spit drink. Spit at the pan in front of you. Spit at the shield to







right. Spit at it again. The candle should go out. 38. Use the matches. All together, in your best Harry Enfield voice Now I don't believe you wanted to do that, did you?"

39. Er, except you did want to do that actually, but you see what I 40. Pick up the bottle in the ocean. Pick up the Martini glass. Use

the glass in the ocean and then use it on the machine. 41. Pick up crowbar. Open barrel and give cracker to parrot.

42. Head into the jungle. Left at the first junction. Keep going until you find a hanging bag. Use bottle on tree. Use broken bottle on

43. Pick up box. Use glass of water on box.

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44. Head on back to the first junction and take the right-hand exit. Use crowbar on chest. Pick up dynamite.

45. Head due east to the dinosaur. Give cracker to parrot. Follow his directions. Give last cracker to parrot when you reach the stones. 46. Actually, if you wander around the jungle you can find a payphone for some comedy interludes. Just thought I'd mention that.

47. Use shovel on X. Use matches with dynamite. Use dynamite on

48. Use crowbar with rope. Use your rope/crowbar on the metal

rods. And isn't this where we came in at the start? 49. In the dark again. Look around with the cursor for a light

switch. Turn it on. 50. Right. The Final Conflict. LeChuck will chase you into various rooms. Here's a list of what to do in which room.

51. The First Aid Room, Get Dad's skull, Open trashcan, Get gloves, Open drawer. Get syringe.

52. The Box Room. Open doll box. Get doll. Open balloon box. Get balloon. 53. In Workshop. Use gloves and balloon on helium gas. Operate

coin return on Grog machine. Wait for LeChuck. When he bends down to pick up the coin, grab his pants and "melvin" him. Like



in Bill and Ted's Bogus Journey

54. In the Lift, You'll need the helium-filled gloves and balloon, Push the lever when LeChuck arrives. Pick up his beard.

55. Any room at all, once you've done all that stuff. You'll have to work fast but you get as many attempts as you need. Give LeChuck the hanky when he arrives.

56. Now use the skull, snotty hanky, underpants, and beard in the VooDoo Juju bag. Use the doll with the bag

57. Presto! A LeChuck VooDoo doll! It's payback time... 58. Use the syringe on the doll when LeChuck's in the same room.

59. Follow him when he runs away. Pull his leg off in spite.

60. And now, sit back and be amazed as the Secret of Monkey Island is revealed at long last...

THE END



ut your hands together ladies French game. This time it's awful beyond your wildest nightmares. Thankfully games, which is to have a completely ridicu

I was half expecting this to be a soy thriller shoot-em-up strategy game where your tennis opponent was actually the evil Phleam who is about to destroy the world with his deadly Atom Tennis Ball.

OK, let's look at the game in our usual objective style. For starters it's a tennis game which more or less condemns it instantly. but being the least playable game I've come across to date kills it completely.

You can play in one or two-player mode. I played on the one-player mode because no one else would take part in this feast of fun with me. The view of the court is from a high perspective behind your player so you are actually getting a frontal view of the opposition

Where this game fails is the gameplay there isn't any. It wouldn't be so bad if the game was actually hard to play, but all you

need to use is the Fire button. if you don't move your player when the opposition serves or returns a shot the computer will automatically put you in the right position. You are actually free to move, but

bound to miss the ball. This lack of movement means the game has less playability than the old console tennis games - at least then you had to chase Anyone for tennis or painful root canal?

Tennis Cup 2

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too good - I gave up rather rapidly after losing every match 6-0. Occasionally he might

hit the net but after a while he just wears Graphically the game is up to quite a

good standard. The players move quite smoothly and various sequences leading into the game are quite well done. The most amusing bit of the game is the opening sequence where both of the play-

ers walk on and are clapped by the crowd. As the players appear, the crowd goes into convisions. Instead of the usual naff clapto right with alarming speed. Next on the giggle list is the soundtrack.

When either opponent scores a point, the umpire announces the score - 15/40 and so on - but remember it's a French game, so it's done with a really dodgy accent

Every time I hear it I get this image of the umpire sitting there with a string of onions around his nerk and a beret on. It has a demo mode which lets you view a game between famous tennis stars which

funnity enough look identical to your character. Like any demo on any game, it's only appealing the first time around, if that, What can I say? It's awful. I can't even see hardcore tennis game fans, if such a thing exists, enjoying this for more that a couple

Check out the guy in the middle of the front row - interest the ball. As ever, the computer opponent is far Tennis Cup II I think you And just to confuse you more...

French graphics AUDIO A riefinite "oh, sod it



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ARexx 109
Alex Gian moves on to handling
data as efficiently as possible
within an ARexx program



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but they're far from useless.
Margaret Stanger animates our
dumb friends



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Don your pith helmet and khaki shorts and join the fearless Ben Pointer on a font safari



MULTIMEDIA 123
Learning French is a lot more
fun, with help from Asterix...
and CDTV: Dave Winder has the

Real prog

aving completed our introductory overview of ARexx, we have now seen most of its impressive features as a command language, as well as its super-practical parsing and string-crossing facilities.

and string-processing stotiles. However, to use Aflexx as a "real" programming language we are going to need quite a bit more than this. Essentially, we are going to need a method of accessing blocks of data in the computer's memory as efficiently as possible, both for reading and for written. This will enable us to do two things:

1. Manipulate large blocks of data faster than we could if we were handling the data as

variables.

2. Declare and use blocks of memory as "stures" that mean something to the operating term. Examples of this are windows, grag bitmaps, menu and requester structures and so Further, by using the memory addresses of it structures, we will be able to pass them to futions as parameters. In this way we can incurcious was able in the literaries of the An incurcious available in the literaries of the An

We will also be able to read known structur already in memory in order to get usel

Direct access of memory is fairly easy with ARexx, certainly no more difficult than with Basic. Nevertheless, this added power does bring added responsibility, and there are things to watch out for. The easiest way to crash the machine is to overwrite a sensitive area of the memory.

Our next few articles will focus on real-life application programming using ARexx, both for interprocess communication and for managing the system, including control of hardware devices.

Let's start by seeing how ARexx can access the computer's memory. There are two ways of doing this. The first is by using the built-in functions IMPORT() and EXPORT() – which correspond roughly to Basic's PEEK() and POKE() – as well as STORACE(), GETSPACE() and FREESPACE().

The second way is by using functions provided by special function libraries, notably rexxsupport.library, which is supplied with ARexx. The main difference between these two methods is that memory allocated with the built-in

functions is managed by the system, and is automatically freed up when the program exits. Memory allocated by library functions must be managed by the programmer, and will not be freed automatically. In some cases this can be

The ARexx Library Calling all ARexx programmers...

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If you want to play your part in the ARexx explosion, send your scripts and additional programs to: AC ARexx Library, Amiga Computing, Europa House, Adlington Park, Macclesfield,

useful. The function GETSPACE(size) will reserve a block of memory of the given size in bytes. It will return a four-byte string which will be the hex address of the first byte.

address of the first byte.

Note that if you want to read this address, you will have to convert it to a decimal or literal hex format using the C2D() or C2X() functions, eg:

space_address = GETSPACE(100); say

You do not have to free this memory with FRESPACE(address) unless you want to use it for something else. When your program exits it will be freed automatically.

In order to write something to our block of monory we use the EVPORT(address, string,length) function. We can use the address obtained from GETSPACEO. The length parameter is optional, and specifiles the maximum number of bytes to be written.

If you are inexperienced, it is a good idea to use it. This way you will ensure that you do not write over more memory than you mean to.

The function returns the number of bytes written. STORAGE() is very similar to EXPORT(), except that it returns the previous value of the memory. This can be used to restore it, if necessary.

Finally, to read a block of memory, we use the IMPORT(address,length) function. Again the length parameter is optional and not necessary when dealing with character strings that do not contain

null bytes. However, if there are null bytes, it must be used,

The ANSI escape codes

re are the man codes in brief:

de: 0 - plan 1 - bold 3 - italic
reground 30 - colour0 31 - colour1 32 - colour3

ramming in ARexx

since a null byte marks the end of a string. Here is a little script that illustrates all the above cycle

/* Writing to memory */ our_space * GetSpace(180) call Export(our_space, This language is a*) previous = Storage(our_space, "very, very firm (aspage") current = Import(our_space)

The above is merely an outline of these functions - there is quite a bit more to them. You should also be aware that if you convert a typical Amina memory address from a decimal or hex form back into a string, (using D2C() or X2C()), you will end up with a three byte string for all addresses less than 0xFFFFFF or 16M.

This will not be acceptable to the built-in memory functions, so you will have to pad it to the left with a 0x00 byte! We will look at the best way to do this in the future.

Direct writing to memory is a feature of ARexx not present in other REXX implementations. It allows Alleys to exceed the houndaries of a script language, and become an excellent prototyping

However, as yet we have not dealt with any examples of what you can write to memory. So, if you are not quite sure of what you are doing, do not go EXPORTing data into memory... not unless you enjoy looking at the Red Flasher. If you are using an eight-colour Workbench, the

numbering continues. Remember that the console will remain set to the values you give it, even after you exit your program You may even want to do this intentionally. If

you just use '9b'xil'0m' the console will be reset to its default settings. Here is an example to illustrate

/* Reset and add a new line */
writeln(my_shell,reset)
close(my_shell)

The escape codes can also be used normally with the SAY command. There are many more things you can do with ANSI codes, but we won't go into detail here, as the subject belongs more to the domain of AmigaDOS - if you're interested, refer to the full ANSI escape code documentation. A second interesting feature that links ARexx

and AmigaDOS are the PUSH and QUEUE ARexx maintains a read queue, from which its

input is PULLed. Normally, this is the Shell from which it was launched. Using the above two instructions, it is possible for the user to place items

Alex Gian on how to turn the theory into practice

AREXX is to communicate with the igaDOS process (CLI or Shell) that

Ultimately it is AmigaDOS that handles all the system input and output, eg writing to the console, getting user input, opening and clos-ing files etc, so ARexx must dovetail efficiently It is often much more convenient to use Rexx macros than AmigaDOS scripts, espe-ally when calculation or logic is involved. All

Superior control is also provided over other atures, including writing directly to files – we

Under AmigaDOS, the console window that you are working from, your CU or Shell, is a device that can be opened and closed, read om and written to, just like a file. You will recall that you open a file for writ-

or to wait recall that you open a file for white ing under ARexx using the function OPEN(llh, filename', write'). This is very similar to the way it is done in Basic and many other languages. "Ifh" is the file handle that you will name" is the actual AmigaDOS filename and can include the complete path to the file, e.g. Ram:MyDir/TempFile.

tion was established and it still works fine under AmigaDOS 2.0, which is written in C. Here is the command that will open the console for

"my shell" is now the file handle that you have given to the console where you are working and anything that you write to "my shell" will

WRITECH(), and not WRITELN().

Another case where you might find it useful

"escape codes" for the style. Among other things, these codes allow you to set the back-ground and foreground colours, as well as the The general format of the string that spec

9b'x is the ESC code '1b'x with the high bit set

on the read queue for subsequent use. So if you place an item in the read queue, and subsequently promoted for input, but the item in the queue will priate time

The difference between QUEUE and PUSH is that items placed on the stack using QUEUE will be used as input in the order in which they were "queued". Conversely when PUSH is used, the items on the stack serve as input on a first-in last-

be used instead!

Any items that are still in the read queue, ie that have not been used when the ARexx program exits, are then passed to the Shell, which

an alternative way to give commands to the Shell, especially if it needs to happen after the ARexx program has exited. It can also be used to set up a stack to defer the use of input until the appro-This could also have been achieved using vari-

ables or compound symbols, but then ARexx offers many different ways to do things. Note that the PUSH and OUEUE instructions

only work with devices that support the ACTION STACK parameter. The Amiga Shell works fine, and so does the ConMan console, since it was written by Bill Hawes, the author of ARexx, but you might find that some other thirdparty shells have problems with them











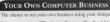












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Toaster gets grilled

f like me, you're thoroughly sick of countless Amiga journalists waffling on about the Video Toaster - a product which will never appear in PAL form - the following article will be music to

At a recent Amiga spectacular in Sydney, product that's being marketed as the complete 24-bit graphics and video solution.

Such grandiose claims often end in disappointment but according to numerous astonished bystanders, Centaur's marketing propaganda was if

anything a consensative statement of fact rather than the usual bistant hyperbole all too

with a new product. At the heart of the system lies the now industry standard 24-bit. 16.7 million colour, double buffered display card. Like Avideo, the card has the option to display Amiga

graphics either in front of or behind the 24-bit display. As you might expect the board can supply imagery in any standard Amiga resolution, stretching right up to 768x 580 Again in a similar vein to Avideo, Opal offers an

alternative animation mode of 15-bit in med and hi-res and 8-bit double buffered output in all

The board also boasts an on-board VLSI Microcode graphics processor which allows resolution changes, stencil modes, an impressive array of transition effects and, perhaps most important of all, smooth scrolling between screens.

On top of all that, the board's "palette mapped"

design allows real-time screen updates rather than the infuriating staggered approach used by other systems. It's even possible to fade full 24-bit images in and out in real-time.

Another big plus is the board's generic design allowing the installation of either an internal or external unit compatible with the entire Amiga range. Both internal and external variants come with 1.5Mb of display RAM as standard which automati-

cally configures to either PAL or NTSC Impressive as the standard board may sound, it's

only the beginning of the Opal

Thanks to a unique modular design, a whole family of hardware enhancements can be slotted directly into the board. For the general purpose user who

wants to round off the board's artistic potential, the OpalVision frame grabber/genlock module is perhaps the most important initial investment. Like all the OpalVision add-ons, the unit plugs directly into the motherboard and requires no additional wiring or power.

Broadcast quality

Once entrenched, the grabber/genlock combination acts as a composite decoder, composite encoder. 256-level linear keyer - with alpha channel output - and a live video effects processor.

Outputs include broadcast quality-S-VHS or Hi8 and composite. The whole thing is controlled via the

Like the amazing Vlab frame grabber, instant freeze frame and multiple grabs are possible as full

Toaster roaster is finally on its way. Paul Austin takes a look

can be done from a live video source - no pausing required.

256-level transparency overlay via the alpha channel for both OpalVision and Amiga images. As a result, live video can be displayed through transparent or semi-transparent areas of the Like Progressive's video blender, all functions

are controlled via software including fading. Another modular addition is the OpalVision

Scan-rate converter which allows output on multisync monitors providing rock solid flicker free display. Next comes the OpalVision Quad-input pro-

frame grabber/genlock allowing software switching between two video sources via cuts, dissolves and wipes between any of the four input sources - videos A and B. Amiga graphics and Opal images.

As you might expect, each video source can accept S-VHS, Hi8, and composite, with available output for both composite and S-VHS.

Real-time processing Finally and perhaps most important of all

comes the "OpalVision Roaster Chip" which adds the Toaster-style features to the board. Once installed, the chip allows real-time processing and morphing of live video, OpalVision images and standard Amiga graphics

As a result you can take a live video source, flip it, scale it, wrap it to a sphere or even wave it like a flag. Perform page turns to reveal secondary source images. In short we're talking a limitless supply of real-time digital video

Other sweeteners include IV24-style picture in picture display, which in Opal's case is done in true 24-bit as opposed to the 12-bit of the IV while also boasting zoom and scroll options as well as scalable window size. As is the case with all Opal's features, the effects are controlled and synchronised via software which includes an expandable selection of wipes fades and

Well if the specs and first hand impressions come even remotely close to the finished product, the ultimate video tool has finally arrived. As soon as the system makes the long trip

from Sydney, you can rest assured that AC will be the first to bring you the definitive review of

After a long wait a

24-bit images. And again like Vlab all grabbing Genlocking is equally well catered for with a













Software spectacular

any one paint package.
Here again the package scores high with a real "Upaint" challenger which appears not only to match the 24-bit master for features but also boasts an array of image processing options that make even such illustrious names as ADPro and ImageMaster sit up and take

Alongside the paint package, Opal also offers "Opal Presents" which as the name suggests is a Scala-style 24-bit presentation package which takes full advantage of the board's scrolling features, allowing the combi-nation of live video and Amiga graphics when tion of live video and Amiga graphics whe mbined with Opal's optional frame grab

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Simple sprites

he picture on an Amina screen is usually "all of a piece", but it can behave as if it were in three independent layers - background, midground and foreground. In dual playfield mode, one playfield can be the background. The examples on the support disk have a background three bitplanes deep - a stormy landscape

with grey green swirling mists in eight colours. The midground playfield is completely indepen dent. It has some very unlikely looking purple and

blue plants and trees. Wherever colour zero is used on this three-bit plane, eight-colour midground playfield, the background playfield shows through The foreground is made up of sprites - small

graphic elements that can be used completely independently of the playfields. They are 16 pixels wide, two bitplanes deep. any height, and are normally displayed in front of the playfields. In the example the sprites look like

Back of the queue

jellyfish in very silly colours.

The more discerning among you may have realised that these graphics have been nowhere near an artist. I was at the back of the queue when such talents were handed out

I admit that the Fun School 2 pictures that I use on this page sometimes were created for me by an expert from Database, and adapted for the

Amiga. The custom chips handle screen display, sound generation, disk access and other input and output. Serious programmers can communicate with these tasks when the processor or DMA controller reads or writes some of their registers.

The Copper, or co-processor, can change the contents of some registers at certain screen positions using a Copper list that is stored in memory and executed command by command at the same

time as the main processing. The display instructions and view modes can be set by addressing the registers directly. Last month

a single playfield of four bitplanes was displayed. To allow for two playfields three bitplanes deep, bits 14 and 13 of register BPLCONO must be set. Bit 10 of BPLCON0 must be set as this is the DUALPF flag. Bits 0 to 6 of register BPLCON2 The Amiga's so called "simple sprite" is just as bright as his more complex cousins, and he can move faster! Margaret Stanger investigates our flighty friend

determine the priority of the playfields with respect to each other and to the sprites. If bit 6 is set, playfield 2 appears in front of play-

field 1. Bits 0 to 2 form a three-bit number which determines the position of playfield 1 with respect to the four sprite pairs.

Bits 3 to 5 determine the position of playfield 2 in a similar way. In this example bits 1 to 2 have the binary value 100 which indicates that all the sprites appear in front of playfield 1; bits 3 to 5 have the same value indicating that the sprites are also in

If BPLCON2 is set to zero, the playfields will hide the sprites - it is always worth checking this when debugging!

moye.! _AssisceDase,ab jar _usTorbic(ab) pdisable mask mictching isa _usTora,as more. # \$3350,deecon(a5) pdisable toper and bit plane DMA more.! ClistAder,coptic(a5) put topper (ist abdress in register clist coping[(a5) triager coper activity triager coper activity

To create the playfield display, I read the background and midground pictures into two separate

bitmap structures using the iffread2,a module

One picture's bitplane addresses were put into the even BPLPT registers and the other picture's into the corresponding odd BPLPT registers Each sprite has a data list of data word pairs.

The first two words of each sprite's data are control words to initialise the sprite. Bits 15 to 8 of the first control word contain the vertical position of the first line of the sprite, bits 7 to 0 contain the sprite's Bits 15 to 8 of the second control word contain

the line after the last vertical line of the sprite. Bits 2 to 0 of the second control word contain the most significant bits of the first line, last line and horizontal position respectively. The last two data words always contain zero.

The intervening data words contain the pixel data. The first two sprites use colours 16 to 19, the next two 20 to 23, the next two 24 to 27 and the last two 28 to 31 The first colour of a sprite is always transparent.

A pixel will be the second colour if a bit is set in the first pixel data word, and the corresponding bit in the second pixel data word is clear: the third colour If the bit is clear in the first pixel data word and set in the second; and the fourth colour if both bits are

The sprite data is copied into chip memory, and the address of the start of each sprite's data is written into the appropriate SPRPT registers. The routine to do this is very similar to the one used last month to write the BPLPT registers with the bitplane addresses. Coming soon - simple sprite-handling routines

in C and more about sprites for assembler

The demo program

sprite.a is the calling program.
The object module, sprite, clears the screen, by blanking out the coloure files, with the filenames specified in the calling program, are opened and read. The files are closed, and control goes better the street of the st

sprites in the foreground.

The picture is displayed on the screen until the user presses the joystick fire button, or clicks a mouse button. The old Copper list is brought back, the memory freed, and the program exits.

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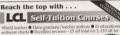
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Speaking in tongues

nether you're simply sharing files with a friend or planning a trip to your local studio, the ability to transfer Midi files rom one machine to another can be an essential skill. For the average loyal Amiga fan, the prospect of porting your creations to a lesser machine may seem a bit like swanning a sports car for a nuch hike, but as

strange as it may first sound, file transfer can on occasion have real advantages. However sad and misguided a decision it might be, it's fairly unlikely that you'll find an Amiga at the heart of your local

On the whole, professional musos aren't particularly computer literate - which obviously makes the ST a compelling purchase and invariably means that this rather senile piece of silicon is frequently found mumbling away to itself at the centre of countless

budget studios.

This being the case, there's no real need to force your Amiga into mixing with the dregs of musical society. In fact, if you've been wise enough to complete your masterpiece prior to booking studio time, all that's required is the sequence on a compatible disk along with any additional hardware - which

hopefully may be supplemented by the studio. Effective

Although it can seem a little unnatural to hear your creations emanating from a PC, ST or Mac, it's often the most effective method of squeezing the very best from any studio session.

Engineers invariably know their studio, sequencer and signal processing setup backwards, and as a result can often speed up the sometimes costly creative process immensely from the comfort of a familiar environment - which unfortunately is rarely that of the Amica

For pure convenience we'll assume that all the transfers will be from the Amiga to a destination machine. This is obviously of massive importance to arry potential upgrader. If you have a selection of trapped Midi files languishing on an ageing PC, ST or Mac, rest assured that their liberation is at hand. Look at the boxes on this page for more details Well I hope this quick lesson in communication

will come in handy. Next month I'm planning - God (and postal service) willing - to bring you a review of the long awaited Sunrise direct-to-disk system. See you then.

The key to file transfer between this particular duet is their joint ability to handle PC disks. The ST has this option as standard, while the Amiga won't officially become PC disk compatible until Workbench 2.1 becomes available in the autumn.

Having said that, the public domain has been fit to burst with numerous Amiga to PC conversion utilities for years. If you simply can't wait for the release of WB 2.1 with its built-in CrossDOS aption, the perfect alternative would be to invest in a shareware utility entitled MultiDos.

MultiDos is one of the latest and

As cross-format communication becomes more important, Paul Austin reveals how to make Midi files move

Amiga to Mac





Cancel

... while CrossDOS does the

Amiga to ST

arquably the best conversion utilities around, being both simple to operate

your machine instantly becomes capable of formatting, reading and writing standard 720k MS-DOS disks and when the conversion process is complete all the active MS-DOS volumes can be un-mounted with a single command - without even having The PC device becomes a valid AmigaDOS volume and can be management utilities such as Sid. Opus, TDM and so on. As a result, even newcomers can move and copy files with complete confidence. avoiding the occasionally complex syntax of the CU or Shell.

When your files are firmly entrenched on the new disk, all the ST user need do is insert the disk and load the file directly into his or her favourite sequencer. The only restriction within the process is that the disks used must be formatted on either an Amiga or PC. For some bizarre reason, although

STs can read PC disks, they do not format them correctly. As a result it's best to format a disk yourself to avoid

potential disasters later on. If you're interested in obtaining a copy of MultiDOS, dig out the August. issue of AC and you'll find the aforementioned utility ready and waiting. If you were buried under a snow drift during the sale of that particular issue you should be able to get a conv though any of the larger PD libraries.















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BBSs made simple

en you first log on to a BBS things can rapidly become confusing. There are so many options to choose from it's hard to know where to start. And if you are really new you won't even understand what many of the ontions mean

The illustrations below should give you some idea of the range of features offered by a typical general BBS, and how to use them efficiently for everyone's benefit

The first thing you see when you connect to Aspects. The logo is intended to be viewed under ANSI but it's faster not to



88Ss are run on an amateur basis. A second phone line is very useful for calling at busy times, and subs earn the undying gratitude of your host.



When you register on the system your name is used to identify messages meant for you. Here you can see how popular I am!



Pat Winstanley talks you through a typical bulletin board

All options are selected by typing a letter. The options at the bottom are doors to offine readers (OLRs) which allow you to read and reply to messages cheaply. Yelling for the sysop does just that. If he's around and not too busy he will type a message which you see directly on-screen.



These new files have been uploaded to the board over the last few days. Those at the top are lists of all the files available. Aspects caters for all types of computer and you'll often find text files for the PC or ST which are useful to Amiga users.



Select an area by typing its number. Now scan the file list and download the files of your choice. Good practice on any BBS is to upload as much as you can in return for files you



Choose a file, select a protocol and away you go. Protocol tells the board how to talk to your Amiga. Don't forget to tell your terminal software (eg Ncomm) to use the same settings as you select on



In the sysop area you can leave messages and find news of local events. Everything revolves around the sysop (Dave Gorski on this board) who will do his best to help if you are having problems. The subject lines give an idea of the range of topics



Around 100 areas are catered for - some local to this particular board while others reach around the world. This is Amiga Computing's very own echo and the message was written to a board in the London area (01 for Amiga) then transferred to Aspects (Manchester) via Fidonet



End of session is the log-off procedure where you are encouraged to leave a message to the sysop. Most boards also give a list of other fairly local boards for you to try.



















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Flash in the pan

ne of the key things which distinquishes Amos from other types of Basic is its orin on the Amiga's breathking sound playing capability. But then again the whole idea of Amos is the be able to access all the functions of the Amiga rapidly and easily, using one command where previously only a few hundred would do.

The Amiga can grab and play sampled sounds very easily. The sound chip can be used, and samples can be put into a bank for you to use in your own programs. Amos can also play music, like the ARK files on your demo disks. But for now let's talk about samples

Using sampled sounds is easy, and similar to the use of IFF picture files, in as much as you can load them in off disk as they are or use them from a bank.

You need an Amos program called Sam Maker, and this allows you to load samples and put them together into a bank in memory

The problem with loading samples from disk is that you have to BLOAD them and specify locations in memory and all that, which is a little bit technical and not to say a touch heavy on memory and resources.

It's a far more elegant solution to store them in a bank as they are ready to access at any time during your program, and they are loaded

Once you have your samples in a bank you can play them back at any speed, which changes the time the sample takes to play and thus the pitch of the sample.

So you can either have samples of speech, snatches of music, or even single notes of an instrument which you can play in a sound/noise/Pro Tracker-type program at different

Playing samples in Amos is a matter of using the Sam Play command:

San Play VOICE, SAMPLE, FRENDENCE

The voices your sample will use are set by setting a bit in V. like so:

11000 voice 3 11010 voice 3 and 2 11111 voices 3, 2, 1 and 0

This is all very well documented, but here's an idea for you. The Amiga has four voices, and these are paired to play in either left or right stereo channel. Voices 0 and 3 play through the left speaker and 1 and 2 play through the right.

It struck me the other day that it would be easy to take advantage of this stereo capability and make stereo sounds - true stereo sounds, not just one sound in one ear and another in the other ear like most programs you hear/see.

If you want to pan a sound around in the stereo spectrum you have to alter the volume across the two stereo channels of the same sound.

Phil South has a gem of an idea for improving your sound

This is called mixing or panning in the trade. To clarify that, a sound appears in a certain To clarify that, a sound uppear position in the stereo "picture", an imaginary

3D space with a left, right, in and out, depending on how quiet or loud it is in each ear. A noise which is soft in the left ear and loud in the right will appear to come from right of centre in front of the So in order to simulate stereo panning

in an Amina sound, all you have to do is put the same sound in both speakers and alter the volume of one or the other to move the sound in space! Let's try this out. Have your Amos Data disk in one of your drives and run the following program:

Screen Open 0,640,256,16,81res Bide : Curs Off : Paper 0 : Cls O Load "Mos_Data:samples/samples.abk"

After all the usual setup, we load in some samples from the Amos Data disk. If you don't have this in the drive it'll prompt you, because I've specified the exact disk name in the Load statement:

Sam Loop On Valume 110.0 : Volume 11.50

Then we turn Sam Loop On to make the sound continuous, and so make it easier to hear the stereo. panning. Next we set up the initial volumes of the two voices we'll be using, in this case voices 1 and 2, indicated by the binary codes %0010 and %0001. This sets the volume so that the right channel is

silent and the left is set at 50:

Locate ,5 : Pen 4 : Centre "AC brings you "Stereo Panning" Locate ,7 : Centre "The sound moves slowly from Left to risk"

Next we have the main program loop, the PANIME procedure increments the right and decrements the left at half second intervals until the sound has travelled fully from left to right:



As they say in all the old Bond movies, crude but effective. If you were very clever you could even have another sound panning the other way too. Or even, and this is a really nice one, move the sound in stereo according to movements from the joystick, which also moves the sprite that the sound relates to! This would give you a real stereo effect for very little programming.

Simply put, this would involve the use of a simple test for the joystick direction as another procedure at the end of the program, and putting the proc name in the main loop. This rou-



Once again it uses the samples from Amos Data, but this time the sound pans in stereo depending on whether you move the stick left or right. The location of the sound is shown at the top of the screen.

Try that out at home this month, and try to make it faster still if you can. Also, you can add a facility to pan the sound in and out as well as from left to right, and move a sprite at the same

And why not send me your designs when you've finished? Send the programs on disk to Stereo Stew, Amos, Amiga Computing, Europa House, Adlington Park, Macclesfield, SK10 4NP. Let's start the campaign for more real stereo in Amos game programs (CAMRESTA) and push

the boundaries of what is possible with simple



















KCS Power PC Board

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standard - using your existing/leniga rodent.

• Mouse can be configured as ODM1 or COM2.

. Since the hardware is a complete PC in its own

he KISP over PC is a complete 1188s; 188 PC sub-dystem that can be 98ted to any Amiga in measure specific and Amiga in measure process of the process of the

the ASOO Plus. Even the original ASOO can access 512K as a standard expansion with clock; plus a 512K RAM disk. Adoned by critics and users alike, the KVS Power PC Board is a real alternative to buying a

Installation

the KCS Power PC board firs to any Amiga in ninutes: 0e A590 and A500 Plus machines it simply sides site trapdoor expansion; and doesn't nouldate your neverably. On bigger Amigas, such as the

Video

 Supports the majority of EGA and VGA mode till glorious colours and monochrome — graph up to 640-880 and tier too. Interface is requifor some modes but a software flicker fixe but the video modes include MDA and OGA I

Other video reposit should Mish Jan Usand graphics. Also susports Tandy coll graphics adaptic and Harceles monochrome.
 EGA and VGA graphics can be displayed of domestic TV or monitor. Unlikarnal PCs. no e hardware is required.

Disk

- Up to fee Aniga drives can be connect
your system and accessed in PC modes as
720K or 5.25° 305K. Typical disk access
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- DDS can be started from any resourced.

- DDS can be started from any resourced.

- Supports most propular hard class inside
"Pf Impact, Supra and A000 (bml and 503

- A massive 256K. transcrive (up to 8Mb

Mcmory

Even with a base Amiga 704K is free for DOS programs (646K in IGA and VDA modes).

EMS (sepanded memory) is supported allowing was an in Micropant Wireldow without problems.

TC emutation is a contentious issue—but the KCS Power TC board is the only one to carry my personal recommendation. It is an excellent product that does all it claims and does it well."—Comments Nark Sandday, co-author of Mastering AmigaDDO 2. PRICE:
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Out of Africa?

ith all three Amiga professional DTP parkages (PageStream, Professional Page and Saxon Publisher) now supporting Adobe Type 1 fonts, it surely wouldn't be long before the huge range of such typefaces available for the Macintosh and PC started to be converted, saved on to Amiga disks and peddled to Amiga desktop publishers.

Soft-Logik, the PageStream people, have made a large number available, but none of these has vet made the trip across the pond.

UK distributors have tried selling commercial solashed out after discovering what the real world charges for commercial, professional quality typefaces, which can be anything from £25 each

You won't pay the price, so the distributors won't import them. Catch 22. This is a very shortsighted attitude which I hope will be rectified

E M Computergraphic, bless their cotton socks, were quick to notice this trend and contacted US typeface designers Computer Safari with an eye to selling that company's wares to Amiga owners in

The thinking was to keep them as inexpensive as possible, so fancy packaging and manuals have been dispensed with. Currently there are 24 disks all told, each containing three or four - or in one case five - typefaces.

Random

There's no particular logic that has decided which typefaces are on any one disk - by that I mean they have not been grouped into sets of wrif, sans-serif, slab-serif, cursive (and so on) typefaces - instead, 50 typefaces have been randomly spread over disks 1 to 16 (three on each, except disk 12 which has five), and these 16 disks cost 67.00 each

All the typefaces are provided in Adobe Type 1 format. These can be loaded straight into PageStream v.2.1 and above. If you've got an older copy of PageStream, dur't despair – all the necessary files are included that will allow you to use them with any version. Professional Page 10 users can use the forti Manager that comes with that program to convert the Adobe Type 1 information into the necessary Compungariality files, after which you'll be able to use

the necessary Compagnative Res often solution you'll be able to use other with Workshein 2. as well as Notebessional Pagn Pagn Vertical Solution for Professional Pagn 2.1 and 3.0 without professional Pagn 2.2 and 3.0 without professional Pagn 2.2 and 3.0 without pagn 2.2 and 3.0 w

About half the typefaces in this cheaper collection fall into the decorative classification - letters BLESS **AMERICA**

render Type I typeloors, but the results are

made from things like planks of wood and building blocks, for example, or simply special designs that you would use now and again to create eye-catching effects on posters or advertisements. There are nine serif typefaces, includ-

ing Book Demi (a bold version of Bookman) and the famous Bodoni and Quadrant Alas there are no type families available - for instance there's the aforementioned Bodoni, but not Bodoni Italic, nor Bodoni Bold, nor

classed sans-serif, but again no families; a Wild West slab-serif face: three symbols faces (two Dingbats and one for maths); and half a dozen fall into the cursive group, the style of typeface that imitates handwriting.

By design or accident there's at least one typeface on almost every disk that might very well come in useful one day. Plywood on disk 2 is probably the most eye-catching, but Export on disk 1, Stencil Caps on disk 3, Deco Font on disk 9, Floaters on disk 10 and Far East on disk 12 also stand out.

The Extra Bold sans-serif(ish) Stance typeface on disk 14 could be good for headings and the serif Gourda Olde Style on disk 16 might be used for Paint Brush on disk 4 would be useful for any-

thing arty, Blocks on disk 2 Using the typefaces Fab Fifties on disk 3 and

Blaster Chrome on disk 9 for anything rock 'n' roll, Tuxedo on disk 15 for anything The eight disks costing £12.99 each are priced higher because the faces on these disks are considered to

be of greater aesthetic More than half are decora-

tive, and there are indeed some wonderfully intricate designs like Patriot on disk 18 (made from stars and stripes), Plaques on disk 20 (made from a chain of inter-

Ben Pointer dons pith helmet and khaki shorts and sets out on a typeface safari

Page US S STEEL BALL State Lot. | Competer Saffer L Gourda Olde Style make might be nice for your main body of text. LOVE STOP ME

AND HOT BUY ONE? MOODNI IT BE NICE?

All the Computer Salari typeloces convert to Co

joining lozenge shaped panels) and IceQuebe on disk 20 (with snow on it). Then there's Generations and Classic Trek on disk 21 and NCC1701A on disk 24 - I'm sure you can

guess what these look like

Famous

Egyptian Hieroglyphics on disk 17 is fun, and there's a version of the famous Copperplate typeface on disk 20. Wedding Text on disk 19 is just the ticket for your erm wedding invitations, but my favourite is Crazy Dazey on disk 22, which is a wobbly 60s-type decorative face covered in flowers.

Each disk is accompanied by a sheet showing the full character set of each typeface, plus information that tells you what key or keys to press to get certain characters - something that is particularly important for the symbol or Dingbat typefaces, but also for all the others because they contain the standard alternate foreign letters and symbols that

aren't on the (UK) keyboard. At between approximately £2.50 and £4.50, each these very high quality Computer Safari typefaces represent excellent value for money. Sure, they are more expensive than the PD/Shareware Adobe Type 1 typefaces available, but then you can be sure, for instance, that they all have a pound sign in the character set.

Product info

Computer Safari DTP typefaces Sets 1-16 £7.99 Sets 17-24 £12.99

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French with Asterix

liest of all. I am afraid that the promised Almanac Special about Online Entertainment has had to be postponed. However, I hope to bring you this in the next month or two

Some good news comes from Commodore, with the announcement of the CDTV "MultiMedia Pack". This is a CDTV bundled with a keyboard, disk drive and mouse, and selling for just £100 more than a bare CDTV at £599

Commodore are also offering a trade-in deal for the pack, allowing you to upgrade from an A500 to the new machine for just £399 if you part exchange your old machine.

Also from Commodore comes the news that a 1Mb RAM expansion will be available by the time you read this. A hard disk should also be available soon - my information is that this may well be a 40Mb SCSI that uses the rear expansion slot of the CDTV.

If you can't wait for Commodore to produce these, and it may - as usual - be a while before they appear, then you could try contacting Almathera (081,683,6418) as they have been asked to produce a limited number of SCSI interfaces for the CDTV to allow external hard disks

Back on the software front. I have been trying three titles I recently received from EuroTalk Ltd. They are Learn French with Asterix. Disks 1 and 2 and Read with Asterix

The Learn French disks are for doing just that, but in a very enjoyable and easily paced way. The disks contain lessons in the form of a story about Asterix spoken in modern French and well illustrated throughout.

You can also explore the home of Asterix and get to improve your French that way, and by checking over 1,500 vocabulary items. It has been proven that using a combination of memory aids is the best way to learn, and these titles Dave Winder looks at a host of new releases for CDTV, including an entertaining French tutor

provide just that with an hour of spoken French, 400 drawings, and accompa-

nying French and English text. Although I have not been able to fully test the claim yet. EuroTalk reckon that each disk can offer over 15 hours of study using all the options

I found it best to use the program in short periods of, say, an hour at a time. It is certainly helping me with my French, which was pretty awful before I started. Read with Asterix is a straightforward story

told in English. It uses the same blend of pictures, text and snoken unice to mood effect. However, I am not that certain of the intended market. It is listed as entertainment, but I have always thought that a story is much easier to read from a book than from a screen. To be fair though it has kept my girls (aged three and four)

amused for an hour or two, and as such it has to

be hailed as a success!

The Learn French with Asterix titles cost £34.99 each and Read with Asterix is £19.99. Also available soon are Spanish language tutors. EuroTalk Ltd are on 071-371 7711.

If you do choose to learn French with Asterix. and I heartily recommend it, then you may also want to consider the purchase of a nifty little gadget from MicroDeal. It is called the Voice Master, and is a wonderfully clever way of getting your voice into the CDTV.

Consisting of a very small black box about 2/3 the size of a cigarette packet and a microphone, the box plugs into the CDTV parallel port, and that is all there is to it.

The only titles I know of so far that actually support this little tool are the Learn French with Asterix ones. There is a section called S'Enregistrer which allows you to record a phrase, and then play it back and compare it with the spoken French on the disc

The Voice Master is a very good idea, but its success really will depend on the ability to get CDTV developers interested enough to support it.

At the moment it almost worth buying to accompany the Asterix discs as it only costs £19.95 - if more titles appear that make use of it then it will become a must-have at a bargain price. MicroDeal can be contacted on 0726

I can be contacted by Email as dwindera@cix or by leaving a message in the Amiga Computing Echo on EidoNet









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games equivalent to such best sellers as Xenon 2 and Blood Money can be produced – it's so straightforward that

The contents include: Curren planning, or project design, mock, upon and put. Shock: mayer, high speech growth grains an extract, collision destends. Shock: mayer, high speech growth grains and seed to Shock and the speech grains and the speech grains and the speech grains and the speech grains and commondic Animation, scrolling, sound and 3D: Links to assembler. Hamenous testeds, voxing programs



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The Troian Amiga compatib lightpen can be used as a complete replacement for the mouse in many applications. Particularly useful in drawing and design, the two button pen provides

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allows the pen to be used with most programs that run from Amiga Workbench. The lightpen is also compatible with: DPaint II and IV, Photon Paint, Workbench 1.2/1.3, Battlechess, Professional Page, Music-X and Audiomaster V2.

Easy to use, the Trojan lightpen will have you producing designs and drawings that are far superior to those produced using a mouse.

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Contents include assembly programming, screen mapping; the use of bit planes; screens; colour; the copper; extensive blitter rotations, translations, enlargements, shears, perspective; input from the keyboard and joystick; hidden surface removal and illumination from a light source; building a 3D world of animated objects and flying around it under joystick control











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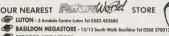
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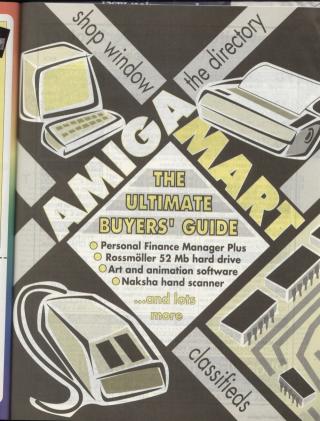
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The Mart's monthly chart of best buys, in both hardware and software. If you're looking for a barg the blace to start...

Free classifieds

in the second-hand market? Classifieds is the perfect spot for

he recent release of the A600 was a boon to some and the bane of many, not the least of whom were the punters whose confusion over Commodore's intentions for the Amira reached almost terminal heights. This was compounded by the mad scramble of dealers doing their best to stay afloat long enough to survive Mr Lawson's

blip. Bundles, price slashes, third-party competition, and the release of three new machines in a year (never mind the constandy shifting CDTV campaign) left the buying public lost in a whirlpool of doubt. In the resulting mêlée, a standard hard drive-equipped Amiga

has somehow slipped into the range at well below the £1,000 mark where the A2000 HD previously could be found. The A600HD is already proving popular with enthusiasts

who appreciate the savings to be made on the price of a hard drive, and is bound to go like hot cakes at Christmas.

However, the A600 without hard drive is causing a few more problems. This model is selling relatively well, given the fact that it was released in the summer quiet period, but when it comes to upgrading the hard drive or installing one in a nonhard drive machine, owners are beginning to realise that the third-party industry has a less than consistent approach to the

Dealers up and down the country have been selling the A600 in both guises for some months now, but few seem to have decided what to do about upgrades.

As the A600 is a "closed architecture" machine

Avoiding the pitfalls

contents to other but the rices of half-height 2.5 DE drives in the PC magazines, then compare the rices with any quotes you receive from Amiga suglers – they may be upping their margin. Don't cept any nonsense about replacing chips and so on Ha company tries to charge more than 4.15 for fit as including acceptance.

fit yourself, so much the better, as they will :

Are dealers taking the mickey over hard drive upgrades?

(Commodore will have nothing to do with a machine that's been opened), dealers who fit hard drives for their customers can only do so if prepared at the same time to offer a warranty. Commodore have no third-party warranty system, and although they don't mind the thought of dealers putting their own 40Mb and 80Mb drives into the A600, they are not pre-

pared to support such activities.

Not fair

Not a helpful attitude, you might be thinking, and not exactly fair on the end user. From Commodore's point of view, however, the A600 is a machine which need never be opened and fiddled with

The crux of Commodore's argument in this area is the PCMCIA slot (the "smart card" slot) which is supported by about 70 manufacturers in the PC market. New Commodore UK boss Kelly Sumner claims that

because the PCMCIA standard is so much more of an industrywide format, and the DMA bus on the old A500 was not, the A600 is if anything potentially more expandable than the older

In the future, assuming A600 sales take off to the extent that PC manufacturers realise the machine exists, many more hard drives and so on could be available for the A600 than were ever available for the A500. So much for the hopeful future, but

Over the next year there will be many A600 owners feeling the urge to take advantage of the hard drive interface already built in to the machine. For them there will be only a handful of options, as Commodore's only solution is likely to be an A590style hard drive external add-on. Going to a third-party manufacturer or a dealer for the uperade is the eath most will take but how many will realise that even if the hand drive is firmed as an official Commodore dealer, the Commodore warranty will Unless the dealer who carries out the fitting explains this

and offers their own warranty, there could be many upgraders out there who receive nasty shocks if the A600 pops its closes To test the response of some of the best known Amies

dealers and mail order companies, Amigo Mort did some phoning around. The replies to our questions about whether it was possible to upgrade and how to do it were many and varied. but some were just plain ridiculous.

Cobblers

One company offered to carry out the fitting, but asked a charge of £55 for what is actually a very simple operation. When asked to explain their pricing, the reo explained that a chip would have to be replaced before the hard drive would work. This is complete cobblers.

For the record, when an A600 is hooted from a Workhench disk, the Kickstart version number which pops up on screen will be either 37.300 or 37.350

Those with machines with 37,300 revision Kickstart can plus in any type of IDE drive except Searages. The bur-fixed revision 37.350 machines will accept any IDE drive.

Only a very few early A600s, according to Commodore, may have been shipped with Kickstart 37.299, which does not support the IDE interface. These machines, if any are out there. will have to have a new Kickstart chip fitted before they can be upgraded with an IDE hard drive.

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Personal Finance Manager

I'm not sure if my bosses were dropping subtle hints when they gave me this package. I don't really mean it when I say that I'm

Personal Finance Manager Plus is an attempt to ston the mindless squandering and that horrible "where's it all gone" feeling

It's an acquired art, managing money properly, a miracle if you're like me, so anything that is geared towards stopping the spread of this affliction is welcomed with open arm

PFM+ is a pleasure to use. One thing I cannot stand is finance programs that presume because you are in a position to manage five hours learning how to use the sodding thing.

PFM+ is simple but to get the full use out of it. it's worth sitting down and checking through the manual.

After you have booted up the main program you are presented with icons for PFM+, and a couple of other unitries Below these icons there are ten individual account boxes waiting for your disastrous input.

These ten different accounts contain different cells similar to a spreadsheet for you to input your various financial transactions

like building society payments and home spending If you have trouble adding up all the spending you've already data for your account is simple, just a case of pointing and clicking on the correct cell. Once all the information is in there you

Michtron couldn't have got any more features into PFM+ if they had tried. Each file can hold up to ten accounts which should be enough for anybody. It can set standing orders up for

You can also produce graphs of your account, I didn't dare do mine, it's depressing enough without seeing a graph of my to trend graphs that illustrate the increase or decrease (unlikely) of bills. My graph was showing a trend to spend too much

PFM+ is the only personal finance program you will ever

op Window

Amiga Mart's monthly guide to the latest Amiga products

need. There are one or two good or easy to use. But you have to pay for quality - (39.95 is the asking price, but it's

well worth it all the same

Rössmoller Hard Disk

Following hard on the heels of the Ashcom simple start drive comes the Rossmoller 52Mb Quantum which is just easy to sec

plus it into the side of your 500 and you're away It only has the very hare hones of a Workbench installed upon it, just enough to make it boot up, so it's advisable to install Workbench 1.3 on it as

The machine itself is a pretty uninspiring piece of hardware to look at - no markings or anything, but looks are deceiving. We clocked the Rossmoller at about 668k/sec in a speed test which is

pretty fast - Ashcom's drive was a damn sight slower than that. Ashcom are asking £265 for their little 45Mb number. The Rossmoller is a little more expensive at £319.99 but you do eet 52Mb, extra speed and a through-port, all of which the Ashcom is sadly lacking. The Rossmoller is a SCSI drive but for some reason

The one major drawback with the Rossmoller drive is the lack of a power supply - this means that it has to run off the Amiga's. This drainage of power can cause all sorts of problems, the main one being the appearance of many a Guru Meditation error mes sage, those infuriating cryptic messages that come up in red when your system crashes

My superiors were a little dubious about the drive because of the lack of LEDs and power supply but I loved it. It seems that manufacturers are finally realising that not everyone in the Amiza



In the Can

Apart from winning first prize in the "worst dressed software package" competition, In The Can hasn't got much to say for

This is the most over-oriced, sad and outdated insult to the public's intelligence ever to hit the Amiga market. It's surprising that items like this which are so outrageously priced are allowed to go on sale. Firstly, the video, although being quite



100

informative, is pretty useless really because of the lack of back-up from the software.

Then we have the software, a single pink disk that has all the allegedly spectacular effects stored on it. I found this

quire odd - three video titline programs on one disk, most As soon as you've booted up the package you're greeted

with a chooser menu which is typical of any PD package you care to lay your hands on. It's relatively easy to use but it The first program I used from of the package was the allegedly spectacular zooming text - spectacularly bad that is. It's all controlled from a click menu at the bottom of the

There are 16 different frames in which you put all the text, the effects and the delay time of the frame before it

Fine, it's easy to use, but all the fonts look like Star Trek refugees - amusing until you want to do something other

than retitle your old Star Trek videor Choosing the colours for the typeface is almost as fun three stomach-turning mixes and seven boring shades of the

primary colours is all it supports which limits it even more. Now for the spectacular zooming. Basically it's the text flying from background to foreground while twirling in various different ways, all of which have been done before, and

The vertical scroller I did like. It less you do the rolling credits at the beginning or end of a film. I was pleasantly surShop Windo

prised at the fonts which are quite clear and sensible - a lot better than the zooming text program. Smooth as the scrolling down the screen was, it did get a little lerky in the

The last program on the package is a horizontal scroller that allows you to flow text across the screen. Its probably guite useful for soundtracked films, but its application is very limited. Like the vertical scroller the fonts were quite good sensible and very adaptable to most themes.

Technically the program's a disaster - too high in price for necole to buy it for novelty use on home video and nowhere near professional enough to be taken as a serious contender when viewed next to packages like Scala 500 or The Big Alternative Scroller (BAS).

It probably would have done quite well as a PD package but £60 guid is a horrendous price to ask for a program which is completely outdated

Naksha Scanner The Naksha scanner is one of the best I've seen. All aspects of

its function are outstanding in every way. Right from the very beginning it looks promising.

The packaging is a very snazzy little carry box which is padded inside and out to prevent your pride and joy getting smashed should you drop it or accidentally hurl it off a block of Now assuming you are only ever going to use your scanner

in one place, the box comes with instructions to turn it into a disk box. Very posh once I'd got through the packaging I almost forgot about the scanner. The scanner itself is a pretty unimpressive looking piece of

hardware. It looks like every other scanner that's been released in the last 12 months, like something off Star Trek. In the box with the hardware is the software, an interface

and a power supply. The interface plugs into the side of your 500. It should be stressed at this point that the scanner is also available in 2000 and 600 versions. Along with the interface is a power supply, which is a relief

the Amira supply. Hardware that does use the Amira supply often prompes the appearance of the Guru Meditation errors

On the scanner itself there are a number of buttons which control the final image. The switch shader lets you set how much depth you want on the finished article, so if you're dealing with a colour image it's probably better to use a higher shader setting so it will distinguish between the colours better. There is a contrast dial which allows you to set how much

Okay be honest, who hates the Amiga keyboard for typing? Yes I do too. This is an ingenious little device that lets you

ould plug – just unplug the keyboard shon and put the new one in. Then you need to feed the ribbons

Then you need to leed the machine and plug your extra

two LEDs on the box take the place of the LEDs on the original Amiga key board that show the power and disl

tle gadget is the perfect addition for

Supplier: Sysons Associates Phone: 081-907 2100 Price: £29.95





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Recently received rave reviews in Amiga Computing RAMBRANDT the much talked about 24 bit card now being shipped at £2599 twin frame buffers, 16.7 million colours, 8meg high speed video ram, 24 bit image capturing in real time with 40mhz
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1024 x 2048 resolution (composite only 768 x 576) supports hardware zoom, JPEG compression, run-length encoding, dynamic resizing and many more with a 24 bit 1.5 meg image in less than 3 seconds. Faster with an 040.

Progressive will release a DIGITAL Junior version with one frame buffer, 4 megs ram and some other features left out. No date set yet.

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KNOW THAT THE PAC VERSION IS DUE FOR RECEASE END 92 no more details yet so watch this space!

of the shading will actually show up on the scan. Those dreaded three letters, dpi — which mean dots per square inch — also have a switch dedicated to them.

have a switch dedicated to them.

This lets you can change the resolution of the image between 200 and 4000pt. Oh, and there is also a start button, which without it would'the mouth use.

Quality wise we were very impressed. The range of different contrasts and depth of shade that could be achieved was outstanding command to some of the other scan-

We tried all sorts of scans when testing it, from photos taken from a normal camera to scanning in pages out of a magazine. It does take a bit of fiddling around to res the right effect.

When you're happy with the scan you can save it in a number of formats - PIX, TIFF (which is the default) and 256 greyscale, which is almost up to the standard of newspaper quality

On saving you can crunch the files down to a respectable site. If you've never worked with graphics before you will soon realine that graphic files sizes are usually gargantuan. After crunching you should be able to save a good few seams to floopy disk, but a hard drive is advised.

The software you get with the scannier is called Touch Up, Apart from the name which sounds a little suggestive it's a very rice and simple to use package which has all the scanner control on easy access with the

Although Touch Up is crammed with features, it doesn't do anything new apart from a nice little utility that lets you choose how many colours to convert to greyscale from a colour

Once your image is scanned in to your satisfaction you can manipulse it as you like. Touch up has four zoom modes in which you can view the image.

Usually your image will look pretty ropy when first scanned.

in but just take a peek at it in the interface greyscale mode. You then should get a pretty good idea what the image will look like when printed.

For some reason when viewing in the greyscale mode it dis-

plays the image in a very small section — if the image is quite large you must scroll around it with the mouse.

There is one problem with the image viewing — it eats mem-

There is one problem with the image viewing — it cats memory. I was working on a 2Mb 500 and occasionally had trouble viewing a full A4 length, but this is unavoidable unless you have a machine with a big memory.



Shop Window

Together with its software, the Naksha scanner is pretty unbeatable



You just can't keep these rodentlike input devices down. Alpha data really have gone a bundle on their new addition to the rodent masses and have brought out The Mouse from Hell.

First off, it's an optical mouse which means that it has no tracking ball in the casing. All the movement is gauged by sensors on the bottom of the mouse. What's the point, I hear you cry? Well there are a few advan-

tages to these little devils whi make them better than norm nice, not least that they will proably last longer than your norm mechanical mouse because the have no moving parts.

a house and a mat. The mat is very important part of the packag

Alpha Data Mouse it your mouse will do no whatsoever. Covering The specifications of the Alph

scurrying whatsoever. Covering the mat are hundreds of dots the sensors pick these up and judge the movement. It's a very good reliable shape. In the round up we had last

the round up we had last conth there were some pretty izarre ones but the classics are ways the best.

ally moan about on mice but is one can apparently take or 1,000,000 clicks so by my recioning your finger

Personally I think it missed er vocation – it should have been SAS member. Check one o for yourself.

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A-7

Disney Animation Studio

Coming from the past masters of animation, wou'd think this program would be the best around. That it doesn't quite make it to the top of the ladder, however, shouldn't put off the

notential animator. DAS is made up of three programs, one for creating pencil drawings, one for colouring the finished animation, and another for synchronising the anim with sound effects and other clips of animation. In effect, it works in a similar manner to the real ani-

mators, a fact that the manual is at pains to point out In terms of features. DAS can stand up there with the like of DPaint, but it is most definitely a non-HAM package designed for cartoon drawings

The prion skin feature, enabling the artist to see the last three cells through the present cell, is ideal for creating smooth animations, but if you want a spinning logo or a HAM animation, try another package.

As a paint cackage, DAS does well enough, if not brilliantly, but where it scores very highly is in its dedicated nature. Budding Disney's can learn a great deal about the animator's art from this package, helped by some wonderful Disney demon stration anims, so it is easily the best package for the educa-

Deluxe Paint 4

Through a little slow as a HAM point package. DPaint has been many things since the release of v3, not the least of which is probably the best animation program available on the Amiga. Version 4's improvements to the already powerful animation section have simply reinforced the package's position.

Animators can now use a "light table" similar to the Disney "onion skin" to enable the creation of smooth animations, and all animation controls, such as Frame Advance and Add Frame have been gathered together on a VCR-style panel for easier control. In addition, there is now a morphing feature which can transform one brush into another over a series of frames, and though painfully slow, this feature can be a great aid when animating.

are still available, the latter of which has given birth to countless rotating, tumbling logo animations. As an overall package for the animator, DPaint 4 is number one

Spectracolor

Basically a HAM paint package, Spectracolor was the first of its kind to offer animation, and has a few extra features which help the program give DPaint a run for its money

Morphing is one, a feature which Spectracolor boasted many months before DPaint 4 was released, but the brush wrapping is

spotlight

The Amiga can bring professional-standard animation capabilities to your home. We look at what's available, and advise you on the best buys

f you want to keep in touch with the Amiga scene and the software that makes it tick, the oftware that makes it tick, this is the place to start.
Every month we'll look at a different area, supplying the essential advice that any would be buyer will find indispensable. This month we'll concentrate our efforts on art and

Spectracolor's most unique tool. This enables the user to pick up a brush then "wrap" it around a sphere, cube, or one of the seven basic shapes supported, to produce quire remarkable effects for a program in this price bracket.

the main one is that it is HAM only. If you want to produce an eight colour anim you can, but it will just be an eight-colour HAM anim, which means slow refresh rates and wasted memory. To add to this, the animation controls are a little difficult to

come to terms with, so unless the unique features are desperately required. Spectracolor is best used as a static image

Remember!

If you can beat any of these prices, then give us a ring

Take 2

A very new product and one which is designed more as an animation finisher than something in which to create the entire anim. For this reason the paint facility is limited. Instead, the animator creates cells and, more importantly, plans which key cells will be used more than once in another pack age, then ports them across to Take 2 for editing.

Once the cells are available, Take 2 can go to work on them using its powerful dope sheet and video scripting utilities be played and allows the setting up of complex routines to mix

harangue them into a sequence. Video scripting enables the correlation of scenes and

sequences as one large anim ready to be taped to video The most powerful feature of the program, however, has to be its ability to run four-level line tests. This means that the ani-

mator can have up to four separate animations going on at once in the same screen, and can edit or cut any one of them at It is the sort of feature usually found only in professional

could lead to Take 2 making an appearance in commercial studios as a valuable and very cheap line tester.

Animation Station

A package with certain similarities to Take 2. Animation Station manages to sit on its own as an animation editor and special effects generator

Like Take 2, Animation Station is designed to be used once all animation cells are complete. At this stage, the user loads the sequence into Animation station, and uses the power of the package to combine animations, tack other on at the end, swap frames around, and assign times for the exposure of individual

Special effects, such as wipes, resizing, scrolling, and others can be added across a user-defined number of frames, making it possible for the user to create professional cuts and edits in a

Animation Station supports all Amiga resolutions and screen modes, including interface and overscan, so it is a great tool for use in conjunction with one of the more traditional paint and animate packages.

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rilogic	to year test puts							
Dataflyer	45	Y	500/500+	N	N	N	259.99	
Dataflyer	45	Y	500/2000	N N	N	N	229,99	
Dataflyer	105	Y	500/500+	N	N	N	389.99	
Dataflyer	105	Y	500/2000	N	N	N	359.99	
lawkwell Electronics	9880F CH	Amiga ke						
GVP	52	Y	500E+	HOLLY DO	Y	Y	399.95	379.95
Magneto Optical	128	A P	A500	N	N	Y	1,199	1,150
Magneto Optical	128	100	1500/2000	N	N	N	999	950
A600internal	40	or comment	A600	N.	N	N	375	350
Supra 500xp	52	suppl: with IMb	A500		Y	co truly of lea	380	375
Gasteiner	Account A			A STATE OF THE PARTY OF THE PAR				
Gasteiner	52	Y	All	Y	Y	Y		349
Gasteiner	105	TO YOU A	Al	Y	Y	Y		599
Audition Computers	and entire bear in							
GVP	105	THE YEAR PLANTED	A500+	Your and	Y sol	Y		439.99
Delta PI Software	W 26 1000 1000	-						
Supra Wordsync	52	N			Y			239
Supra Wordsync	105	N			Y			379
GVP HC8 A2000	52	DELEGICAL PROPERTY.						279
GVP HC8 A2000	120	Y						419
GVP HD8 A500	52	Y						349
GVP HD8 AS00	120	Y		Y		Υ		469
ADD								
Addhard	45	Y	Yankan	N	y	NO	265	265
Addhard	70	Y	Y	N	Y	N	345	345
Addhard	105	Y	Yester	N	Y	N	395	395
Addhard	205	Y	Y	N	Y	N	495	495



Make	Capacity	Onloff switch	Chip upgrade	Internal /external	Compatibility	RRP	AC price
Trilogic							
The second second							
Trilogic	IMb	N	Υ	int	500+	49.99	39.99
Baseboard	0.5-4Mb	N	Y	inc.	500/500+	1	79.99 - 199.99
Dataflyer RAM	1-8Mb	N	Y	Int	1500/2000		89.99 Unpopulate
Hawkwell Electronics						3	
Virgo v500	0.5Mb	Y	Y	Int	500		24.95
Virgo v500+Clk	0.5МЬ	Y	Y	Inc	500		29.95
Power PCR1.5	I.SMb	Y	Y	Int.	500	99.95	89.95
Virago V4000	4Mb	Υ	Y	Int	500	198	198
Power 16chip	0.5Mb	Y	Y	Inc	500	24.95	19.95
Power 16chip+clock	0.5Mb	Y	Y	Analotte Complete	500	29.95	24.95
Power I.SMb	1.5Mb	Y	Y	Int	500	85	79.95
Power I.5Mb	1.5Mb	Y	Y	Have sell is located	500	89.95	69.95
Analogic Computers							
ADD	A500/0.5Mb+clk	Y	Y	Ext	100		24.95
ADD	A500/0.5Mb	N	Y	0008/Ext //	100		34.95
ADD	AS00/IMb	N	Y	Ext	100		54.95
Power Computing							
Power	A500/0.5Mb+clk	Y	Y	Int	500	29	
Power	A500/0.5Mb	Y	Y	Powerollet mod	500	24	
Power	A500/+/0.5Mb+clk	Y	N	Int	500	24	
Power	A500/+/0.5Mb	Y	N	Int	500	19	
Power	A500/1.5Mb	N	Y	Andrigat Computer	500	79	CONTRACTOR STATE
Power	A500/I Mb	N	Y	REY/O # Int	500	49	
Power	AS00/IMb	N	Y	See Inc	500	39	
Power	A500/8Mb	N	Y	Doler on Solozona	500	2Mb 129	
- Garage Sample Company	ASSURETE	Y Y		Andrew Modes	300	4Mb 189	Salara Still Sent E
						8Mb 299	
Power	A500/2Mb	N	Y	Ext	500	99,95	
FOWER	With Clock IMb						
	Without Clock I Mis	and the latest to	EFS INVESTIGATION	Trap	A600	49	EHEDICIA OD
Delta PL Software	Without Clock I Mb	Allocity	FIGH STANKING	Trap	A600	45	CHEMINASIS
	T wingers SHV 2		nield solling Col.	Total Continues	19G valti (mm) serce	and age	-
Supra Ram 2000	2-8Mb	N Y Turne	N	İst		149	
Supra Ram 500rx	2-8Mb		THE RESERVE TO BE REAL PROPERTY.	Ext		149	
Pheonix A600			Trap				
Gasteiner							
Alfa Data	0.5Mb	COSO-Yesteles	N cere	Int	A500	29.95	26
Alfa Data	2.0%6	Y wire	IMb I	return this quest	A500	149	99
MemoryMaster	8Mb				Int -	A500	129
Audition			Dyna				
A600Ram Ex1	Mb	N	Y PEI	Trap 100	A600	55	
Phoenix							
A500+	ІМЬ						39.99
A500 Keybd ROM sharer							34.99
A500 ROM Sharer							24.99
Amiga 2.04 upgrade							79.99



Hard Times



Every month the Mart picks the best from the rest in our top ten hardware and software chart...

Rossmoller 52h Quantum H/D		Sysons Associates
2 A600 with soft bundle	ware	Commodore UK
3 Naksha mono s with software		Naksha
A600 Imeg exp with clock	pasion £49,95	Power Computing
5 Quik replacem	ent mouse £13.99	Phoenix
6 Supra 2400 mo	idem £79.99	First Choice
7 Adobe type on fores, five disks		EMC Compugraphic
8 DataFlyer 40m hard drive	eg c229	Trilogic
9 Power 8Mb ex the 2 mag AS		Power Coreputing
10 DPaint IV	(54.99	Dynamice Computers

Make	On/off switch	Thru-port	Single/double drv	RRP	AC price
Trilogic	talue For				
Rockte RF382c	Yardin	Y	Single	69.99	55.99
Cumana	Y	Y	Single	119.99	99.99
Cumana	Y S	Y	Single	69.99	58.99
Analogic Computers	were I	Y			
Zydec	Y	Y	Double		59.95
Hawkwell Electronics	W L Y TO LE				
Citizen or Epson	N	N	Internal AS00	69.95	49.95
Power 880E	Y	Y	External anti-click	59.95	59.95
Power880DD	Y	Y	As above X2	119.95	119.90
PowerDual	Y	Y	Double	125	99.95
Gasteiner		Carlo service			miles on
Gasteiner	Y	ΥY	Double	79.95	59.95
Power Computing	9				sand
PC880E	N Y	Y	Double	49.95	nativo!
PC8808	y Y	Y	Double	69.95	250
Audition Computers	To your	1700			1999
Cumana CAY-354	Y	Y	Single	78.22	52.99
Power 880B	Y	Y	Single	69.99	67.99
Delta PI Software	To Want I	N. T.			1949
Roctec Roclite	Y	Y	Single		59.95
Phoenix					
Delux drive	Y	Y	Single		47.99

SCANNERS						GENLOCKS					
Make	Туре	Scan area (mm)	Max DPI	ColouriMono	RRP	AC price	Make	S-VHS compsite	Thru-port	RRP	AC price
Trilogic							Marrcam LTD				
Zviec	Hand	105	400	Mono	99.99	94.09	Rendale 8802	Y			139
Audition Computers	mano	100	400	14010			Rendale 8802 fmc	Y			178
Power Power	Hand	105	LONA	Mono		99.99	Rendale Super 8802	Y		379	499
Power Computing	10010	-	Y008A				Syntronixs			379	
Power Scan	Hand	100	400	Mono	99		Genmaster	Y	Y	VIII	
Delta PISoftware			4				Dynamite			349	nedition
Alfa-Data	Hand		400	Col		139	Rocgen	Y	N	200	84.99
Alfa-Data	Hand		400	Col		249	Rocgen Plus	Y	Y		129
Golden Image						7	Audition		30	1,000	100EA
Alfa Data	Hand		400	Mono	199.99	149		N	Composite	N	STORES
Alfa-Data	Hand		400	Mono	299	239	BM 2300	N	Composite	14	- COOK
Phoenix							Phoenix				AT count
Epson GT-6000				Col	989.99		RhomboVIDI				99.99

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	H	Nathing 50p	H	Very Interesting Dulle Interesting Not very Interesting Borin
	PI	7fe		Action [7] [8]
If yes, please state which one		(1		Page H H H
How much do you intend to spend on your computer and related produc	n in	. Please rate the following editorial items from Almanac in order of inter	west, one	Advertise
the next six months?		to eight - one being of the most interest.	myr.	Wandardings
Up to £25 Over £50	H	Affanox Multimedia	H	Other
Over £100		Maic		Nove
Over £200	Ш	Programming	To His	
		DTV Comma	SO H	PART 4 - YOU AND OTHER MAGAZINES
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No.		Disk coverage	957	Aniga Format Aniga Shopper
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19 hour up to 1 hour	OF L	General interest articles		Aniga User Int
f hour up to 11 hours 11 hours up to 2 hours	e Ho	How far is your choice of software and peripherals influenced by Am	Spills in	CU Aniga 🔲 🗎
2 hours up to 3 hours.		How far is your choice of someons and perspension innovation by An- Computing?	A PROPERTY.	To what extent do the following elements influence your choice of magazine
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Three		Yes	H	tion?
Four Five or more	H	· 1100 " 1 1 1 1	P	Notes Provint / 2 CO O2 2
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What do you like most about Arrigs Computing?		Notes	H	
		Important Very Important	H	Please state how you think the Arriga Mart section could be improved
What do you dishe about Array Computing?				
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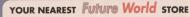
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