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Issue 780

January 2nd 2004

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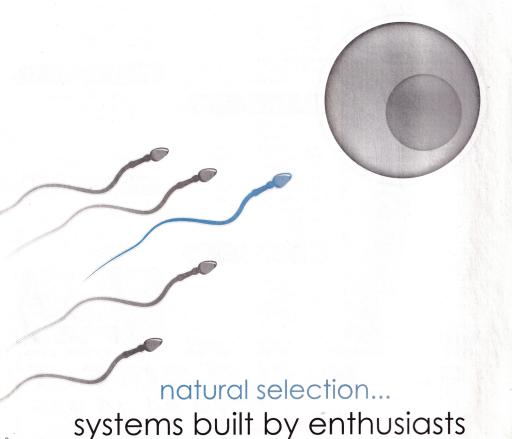
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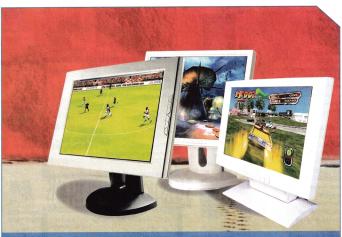








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PG07_TFT SCREENS

ON THE COVER

With prices now falling well

under the £200 mark, what better way could there be to start the new year than by treating yourself to a TFT screen? Our six page special

this issue looks at these in some detail, talking about the technologies underpinning them, what you can get for your money and where monitor technology is going next. That all starts right over the page on Page 7



PG53_ CD/DVD BURNING SOFTWARE ON TEST

ON THE COVER

Plenty of packages

now promise to help you burn the perfect CD or DVD, some of which are positively brimming with features. For our group test this week, we mix together a couple of shareware titles and put them next to the big commercial packages to see which is the best for burning your discs. Find out what's worth your cash and what - quite frankly - isn't, over on Page 53.



OF SEGA

ON THE COVER

of the Dreamcast, Sega have become a software-dedicated company, bringing several of their big titles across to the PC. Yet their history spans back quite literally decades, way before games such as Out Run and After Burner used to wow the arcades. We trace their life and times in our latest history feature on Page 35.

Since the



WHY MARIO MATTERED

The Nintendo Entertainment System and Mario the Plumber had a huge impact on the computer world. Find out why on Page 40.



E-MAILS THAT SHOULD NOT HAVE BEEN SENT

We take a look at some of the more high profile problems that can emerge when you send that e-mail you really shouldn't...
Page 44



PAGE PLUS TUTORIAL

We gave it you free last issue; this time, we show you how to use it! Catch our Page Plus tutorial or Page 92.



POP IDOL

What better way to start the year than with a 2/10 review. Find out why the virtual Pop Idol sucks on Page 75.

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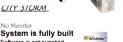


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BUYING A TFT

Thinking of going digital with your display? Mark Pickavance leads you through the pitfalls and pleasures of your first TFT.

When I worked in commercial IT I had the dubious pleasure of a large CRT monitor, and by 'large' I mean a 21 inch Sony Trinitron.

As nice as this was what wasn't so much fun was having an extra desk placed in front of mine to support it, and carrying it up two flights of stairs to my office. I'm a big bloke, but 30Kg+ of uneven and oddly shaped weight is enough to make any chiropractor weep with delight.

Thankfully the era of the big tube is coming to an end, and welcome relief for slipped discs and strained eyes is available in the form of the humble TFT. If you are the market to join this flat revolution then here are a few things to consider before splashing out.

ADVANTAGES

I've already eluded to a couple of key advantages that the TFT has over the tube CRT, but precisely put what are the key points which make the TFT worth having?

The reason most people buy one is 'space', or rather lack of it. While large CRT prices fell a few years ago not many people have the homes that can easily locate such monsters. The depth needed for a 19inch screen is substantial, and this can lead to being too close to the screen for comfort. This neatly leads on to the second good reason, that of visual comfort or display clarity.





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SPECIAL DATULE BUYING A TET

Even the best tube monitors in the world don't generate a perfectly flat and distortion free image, the very nature of the solution doesn't allow for it. Depending on how much distortion there is your eyes will attempt to make adjustments, resulting potentially in strained and tired eyes. If like me, you spend a working day at the screen, then what might seem minor annoyances can become inflated into genuine problems. The TFT by its very nature provides a much sharper and stable image with less flicker. This is obviously better to work with for long periods of time.

So what other reasons are there? Well, a TFT uses about only one quarter of the power of an equivalent CRT display - so running costs are proportionally reduced. Because of that they also generate less heat, which may be a valuable feature if the location you work gets excessively warm.

They also emit less radiation. While conflicting evidence exists as to the a real danger posed by the levels and range of monitor radiation what is know that these are much less from an LCD than other technologies.



There are only a few advantages the CRT has over the TFT, but there are a few. One of the first things I noticed when I had a TFT was how blocky DVD and DivX files can appear when being played. The irony here is that the files are actually blocky in places, but the CRT hides those imperfections from us by smoothing the image. In this one situation the slightly blurry CRT has the upper hand, but by accident rather than design. In general CRTs still display more colours, which also contributes to this issue.

Another area is potential points of failure. A CRT will generally work well until a component fails and then you have no screen. A TFT can have a progressive failure where either the luminescence gets over time or a group of dead pixels grows.

While CRTs can suffer with diminished brightness they don't generally have parts of the display turn off. They are also less prone to screen damage, as glass is quite robust stuff when curved. With any sharp object it's possible to damage a TFT with relatively little pressure, which means they

aren't really suitable for young children or those that play darts nearby.

On a cost basis the rise of the LCD has had a negative affect on the value of tube monitors, which easily cost a half to a third of the price comparably.

KEY FACTOR 1 - SIZE

So the first thing you need to decide is what size TFT you want, which is generally a budgetary concern. As a rule the bigger

the TFT the better it is, so if your bank account can stand it then I'd get a 19 inch TFT.

Bigger displays generally have more screen elements or cells, and as such a higher natural resolution. By 'natural' I mean that a pixel from the monitor relates directly to one in the computer. If you want to run at a lower resolution that the TFT was designed for then one of two things happens; Either the TFT electronics stretches the display to fit, resulting in a degree of fuzziness (not good), or uses a reduced area by placing a back border around the image to maintain the pixel-for-pixel relationship. This is a complete waste, so if you want to run in 1024 x 768 then get a TFT which runs naturally at this resolution and not say 1280 x 1024.

When comparing a CRT with a TFT don't take the sizes as a literal comparison. The CRT makers played a game for many years where they quoted the outer limits of the tube size as the size of the display, which is anything up to two inches less than the actually visible display. So a 19 inch monitor might only have 18 inches of actual display or less, which means a 17 inch TFT is nearly as large in terms of image shown.

Another interesting aside to LCD pixel ratios, which have rectangular pixels and not as you might expect square ones.

Monitors with resolutions of 1024x768 and below have a pixel aspect of 4:3, which is not in conjunction with their physical aspect. As such circles plotter without some adjusting factor would be perfectly round by slightly squashed.

However LCD displays of 1280x1024 have a 5.4 ratio, which fits perfectly the physical aspects of the screen. As such it is ideal for those, like designers, that require total visual accuracy.

KEY FACTOR 2 - BRIGHTNESS

Monitor brightness is usually stated as either cd/m² or candelas per square meter. To confuse matters candelas are also charmingly referred to as 'nits'. A





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single candle generates one 'nit' where a flat panel monitor will produce between 170 and 300

Usually I wouldn't suggest that anyone buy something that has nits, but in this case don't consider anything which has less than 200 and preferably 250.

KEY FACTOR 3 -CONTRAST RATIO

Having a bright image is good, but not unless the contrast available can handle the bright areas of the screen in relationship to the dark. What you don't want is to turn the brightness up only to find that any black is now grey.

The contrast ratio tells you the range of brightness that can be exhibited across the entire display at any one time, the more is obviously better. A good TFT can have a contrast ratio in excess of 1:500 which is excellent and even better than CRTs. The low water mark is 1:300, below which you shouldn't really consider the screen. If you want to know the difference between quality and cheap monitors the difference is usually explained by this value.

KEY FACTOR 4 -VIEWING ANGLE

Early TFT and Plasma displays all suffered with very limited viewing angles, which meant that if you weren't exactly in front of them then you couldn't see the image correctly. Because of this TFTs now usually quote a viewing angle which shows the range at which you can still see. You might notice that the better quality products have viewing angles in the range 160-170 degrees, as a rule don't buy one with a view angle of less than 140 degrees. You may also discover that some brands quote different angles for horizontal and vertical, which might be important if the display swivels. For one person viewing angle might not be super important, but if you intend to use it to present to other people then it might be crucial for everyone to see well

KEY FACTOR 5 - DVI

Virtually all modern video card now come with DVI or Digital Video Interface. The idea behind this technology was to drive the LCD directly using digital data from the card, rather than converting it into an analogue VGA signal, and then have it converted back in the screen electronics. Having this feature is nice, but hardly essential as the image quality provided by VGA in many circumstances is hard to differentiate from the DVI source. What is useful about DVI is that if you monitor supports both, then you can use this to attach two computers to a single screen. This might prove invaluable if you need access to more than one machine or build computers occasionally.

KEY FACTOR 6 - REFRESH

An issue with early and cheap TFT monitors has always been image 'persistence' or low refresh. When an image is created on a display it has a time cycle when it will be viewable before it is replaced by the next image. If the image persists then the result is a ghosting effect when significant and rapid image changes occur. These are exactly the situation that happens when you play a game, and the screen is updated rapidly. If the refresh rate is too low the whole display can blur in a sort of drunken swirl of pixels. Not good for playing games, or those with a sensitive disposition. For a decent display refresh should be in excess of 70Hz.

KEY FACTOR 7 -MOUNTING ARMS

When LCD monitors where new to the market some standards were set down, one of which is the VESA connection format. This is a layout for the attachment of the screen to a mounting point. If the TFT you pick has a VESA

mounting then it can be removed from the standard support and mounted onto a VESA mount, which might be attached the desk, wall or even ceiling. Wall mounting is a great way of clearing your desk space. Just make sure you don't intend to change the room around any time soon.

Depending what mount you get extra features may be added to your monitor, the usual one being a swinging arm. Other designs incorporate screen twisting for A4 work. While the VESA mount might let you do this, you will have to rotate the screen manually using features in your display driver. In TFTs with this feature inbuilt the turning of the screen can be made to trigger the rotation of the display by the system.

KEY FACTOR 8 - DEAD PIXELS

Very few monitors are perfect, and with millions of liquid crystal cells in a TFT some are likely to become permanently stuck on or off. This can be very annoying, as the eye is naturally drawn to the high contrast nature of these faults. Each manufacturer takes a different stance with dead pixels, some cover them in their warranties about a certain quantity - others don't.







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SPECIALIDATURE\> BUYING A TET



Many makers do have a higher quality specification or 'AAA' grade, on which they guarantee perfect panels - but at a premium price. You might want to find out what the policy is for the brand you like before parting with hard cash. One good thing about higher resolution displays is that pixels are smaller and therefore less noticeable when they decide to malfunction.

KEY FACTOR 9 - EXTRAS

TFT makers like to add things to screens, so that in a straight head-to-head choice between their product and another's they can say, 'But ours has...whatever'. For the most part I wouldn't really consider any of these extras a basis for buying a TFT, as the most important aspect needs to obviously be the display.

Speakers are a current favourite. They are either integrated or accessories designed to compliment the design. Personally, I've never heard a speaker provided as part of a TFT which remotely impressed me. The only use to which I will consider using them is as a centre voice only speaker in a 5.1 or 6.1 audio setup.

Another option is a combined USB

hub. This I find marginally more use than speakers, as it brings the ports to a convenient desktop location. You really need to make sure that the hub is powered from the monitor and of USB specification. It is useful to remember that getting a USB hub of this type independent of your monitor would only cost £10-20, so paying extra for this feature should reflect that worth.

WHAT YOU GET FOR YOU MONEY: £200 OR LESS

I'd say unless the monitor is on some specially reduced sale, be careful about buying a TFT for less that £200 (of course, there are exceptions to this, but it's worth asking a couple of questions anyway). Even the really cheap ones tend to be in the £210-230 price range. When the new products appear - usually in the Spring - you may be lucky enough to find a reduced cost branded 15 inch TFT. What you need to look out for is dead pixels and the warranty, If the warranty has been reduced to say three months walk away, the chances are that this is either returned stock or fault repaired. As with

most things, if it looks too good to be true it usually is.

£200 - £300

For a little over £200 you can find some very high quality 15 inch TFTs. The brands you are likely to be offered are Hansol, RELISYS, CTX, Sharp, Viewsonic, NEC, Philips and LG. In fact you can get almost any brand 15" inch display in this price bracket including Sony. If you are willing to go above £250 then you can have a 17" model from the less well known brands. That's not to say these aren't good quality, the majority of all screens are made either in Taiwan, Korea and China irrespective of the logo that end up adorning them.

£300 - £400

As you go higher then the quality does improve, and the big brands like Hitachi and Sony make an appearance in the 17 inch ranges. If you are willing to go with LG or Relisys then you can have a screen at big as 18.1 inch for less than £400.

These larger displays usually have a native resolution of 1280x1024, which is great for both serious and entertainment uses. Another advantage of this resolution in particular is that it can show both a 640x480 and 800x600 images without anything unpleasant happening to the representation i.e. it been stretched and made fuzzy.

HOW DO LCD/TFT SCREENS WORK?

All LCD screens use the same concept of a 'transmissible' display, as they require a backlight to project through the cells. The cells can either allow light through, or block it depending on the intensity required. Colour is introduced by having three cells with red, green or blue filters which combine to form a single pixel. In general use are two different types of LCD display, passive and active. —In a passive matrix the cells are controlled



BUYING A TET <\.... SDOCHALICATION

by electronics located at the edge of the display. These turn the cells on an off by row and column, and the displays are generally divided horizontally into a series of sub panels, usually two. This is where they get the title of 'dual scan' displays. Passive displays were the first commercially available LCD monitors, and where used in less expensive laptops. I've never seen a passive display sold as a desktop monitor, but it's entirely possible someone once made one.

Active matrix is also known as thin-film transistor or TFT, and is the technology of choice for current LCD displays. Instead of arranging the electronics around the outside each cell in a TFT has a transistor located within it. These directly control that cell and allow each of the colour elements to be controlled individually. As you might expect this is a more complex arrangement, which makes the TFT more difficult and expensive to make than a passive display. The advantage is that the images are sharper, and refresh is increased making them suitable for moving images.

THE FUTURE IS FLAT

Development in this area has been highly stimulated by the growth of the market, in the next few months TFT sales will for the first time exceed those of conventional CRT displays.

At a simple level screen makers are working to make the most of the humble TFT, with enhancements to increase brightness, contrast and increase viewing angle.

While these improvements will be welcomed, the real challenge is to produce flat displays which provide both high quality moving images, accurate colour representation and clarity, but are also inexpensive to manufacture.

The TFT is likely to see two developments, which you will likely see in product brochures in the near future, IPS (in-plane switching) and MVA (multi-domain vertical alignment). These are both ideas to increase viewing angle, and are likely

to appear in end user products soon. Here are some more technologies that might replace the TFT completely:

LTPS

Strictly this is still TFT technology, but a radical offshoot. Samsung, always an innovative company, has recently demonstrated a 21.3" TFT display that uses a special Low Temperature Ploy Silicor (LTPS) substrate. The screen is a 1600x120C pixel design with light output of 430 nits and a contrast ratio of 500:1. This is an impressive specification and suggests LTPS maybe the next step up.

Getting more techie for a moment, the screen uses cutting-edge thin film crystallization technology known as sequential lateral solidification (SLS). SLS technology enhances overall uniformity of the crystals in the display. This means bigger displays than were possible before. It also opens the door to a single crystal like poly-silicon which would be thin enough to be rolled up and even worn as clothing.

LEP

In concept LEP, or Light Emitting Polymers, was first vaunted over ten years ago but has yet to make it into the mainstream in product terms.

LEP began in the early 90s, when it was discovered that it was possible to make polymers glow in the same manner as silicon substrates. As disappointing as LEP development appears to have been, it is likely to change in the near future, with the first LEP products been shipped soon. These initial products are for passenger





information displays, with computer products some time away yet.

OLED

This is real Sci-Fi technology, OLED, but looks a strong contender to ultimately oust TFT. The technology is based on the biology of photo emitting organisms such as fireflies and deep ocean creatures which produce their own cold light.

It has the potential to be the ultimate in display technology because it uses very little power and as a result regenerates very little subsequent heat. There are many applications, but primarily laptops, where these aspects would be invaluable. So far only prototype products have been demonstrated, but these have been impressive.



SPECIALICATURE BUYING A TET



which is something of a holy grail in

PLD

Another technology with great promise but little in the way of actual products is PLD, or Paper Like Displays. Developed by Canon, these amazing devices are no thicker than two sheets of paper. They use electrophoretic display technology. In this, charged particles such as toner are dispersed in liquid and sealed between a pair of plastic sheets. When powered the particles are either attracted or repulsed by an electrode grid embedded in the sheets. The resultant image is stable once the power is turned off, making it perfect

for making dynamic printed material, colour images (Red, Green and Blue) or CYMK (Cyan, Yellow, Magenta and Black) combinations.

The advantages of this type of display technology are numerous, the most obvious being weight and flexibility. As the image does not need to be powered when static it would also be very power efficient. The only big question is when?

It appears that getting the substrates to be stable has become a major challenge for Canon, who now says it could be 2007 before the colour versions are ready. Until they solve these issues then animated newspapers will sadly only appear in Hollywood science fiction films.

Recently a Taiwanese company called IDTECH demonstrated a 2O inch display which used only 25W - which compares with 7OW for a TFT. As well as low power consumption the system reputedly has better colour representation that a CRT, and is cheaper to make than any other flat screen technology. Best of all, it looks like it is suited to making very large displays,





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26878	512Mb DDR PC2100 266MHz RAM	£46.99	£55.22
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24293	Relisys TE770 17ins monitor 0.27dpi	£65.99	£77.54
42033	GNR CM1772FS 17ins Monitor FST	£65.26	£76.69
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51202	Acer Travelmate 252X P4 2.6GHZ 30GB	£684.95	£804.82
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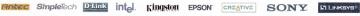




















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42975	Canon Lide 20 Flatbed Scanner	€35.49	£41.71
42099	Lide 30 Scanner - 1200dpi Ultra Slim Uk	£41.99	£49.34
46165	Epson Perfection 3200 Photo Scanner	£222.08	£260.95
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504	USB Data Cable w/ CD Driver Motorola V730	£3.59	€4.22
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55543	eBuyer AWR-7210 11mbps Wireless ADSL Router	£59.99	£70.49
48444	eBuyer Wireless 11Mbps USB Adapter	£24.99	£29.37
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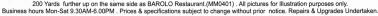
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README .TXT

Hello and welcome to the first Micro Mart of 2004! Hopefully by now you've recovered from the rigours of the festive season, so let us be the latest to wish you all a Happy New Year!

You'll be surprised to hear that we've got more changes up our sleeves for Micro Mart over the coming months. The number of editorial pages we run every issue is shortly to rise again, we'll be tidying up the design around about Easter time and we've got a series of freebies over 2004 that we think you'll really like.

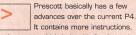
As always though, Micro Mart is your magazine. If there's something you'd like us to cover, then why not write in and let us know? Our You Choose features will be coming back over the forthcoming months, but even aside from these, we're always interested in your views on what we're doing. Just drop us a line and share your thoughts!

As for this issue, we've got another jam-packed magazine. Over the next week or two, it's likely you'll be in the capable hands of Jo Sawyer again, depending when Simon Junior decides to make an appearance. I can only ask that when I come back, you don't write in and ask for Jo's picture to become permanent at the top of this column!

Simon Brew Editor

PRESCOTT IS A P4

No, not that Prescott...



for instance, which help with floating point applications and the likes of video encoding. Then there's double the cache of current Pentium 4 processors, which obviously has a beneficial performance impact.

However, as Intel want to keep the Extreme Edition as their premium product, they perhaps wisely have concluded that people would assume a Pentium 5 is better than a Pentium 4 Extreme Edition. Hence, we're still stuck with Pentium 4

It could be worse. They could carry on calling it Prescott. Even we could make a half decent headline out of that. More information at www.intel.com



CASEWRAPS HIT THE UK

On sale now!

Back in May of last year, we put together a special cover feature looking at casewraps. For those who missed it or don't remember, these were special designer prints that you attach to your PC case, giving your machine an instantly much different and really rather spanky look. The only problem back in May was that they were available at that stage by importing them from the States only. However, their journey to the UK is now complete. and they're now officially available on these shores. Made from tough vinyl, they're being brought to market by Wrap Us, who are also selling a range of console and laptop wraps which can similarly bring that bit of extra customisation to those machines. There are numerous designs to choose from that the firm are already offering to UK customers, and introductory prices are in force too. More information can be found at http://wrap.us.com







TERRATEC **DEMYSTIFIES** THE 5950

A nice little number.



The bods at TerraTec have announced the impending arrival of their Mystify 5950

graphics card to UK shores. The card takes a substantial leaf out of the nVIDIA book by basing itself on their vaunted GeForce FX 5950 Ultra Chip and making use of the CineFX 2.0 engine.

The set up currently runs at £449.99 (inc. VAT) and comes complete with three big name games: Tom Clancy's Splinter Cell. Gunmetal and Warcraft III. But at this humdinger of a price it's going to be a while before us mere mortals can afford it! Head over to www.terratec.co.uk for the lowdown

SMART **SCREEN**

The word of the web

Toshiba have come up with a smart new gizmo that effectively makes your on screen information invisible to the outside world. The device takes the form of a tiny circuit that can be built into the LCD displays of PDAs, laptops, mobile phones and ATMs. This circuit effectively rearranges the pixels of whatever you're looking at into something else when the display is viewed from a different angle making it nice and secure. So your top secret plans for world domination will stay just that.

Unfortunately Toshiba aren't planning to share this secret with us until the latter half of 2004, but the cat's out of the bag now. Hee hee.

COPY PROTECTION COP OUT

You can't play games



Ubisoft have done the dirty on players of Rainbow Six 3: Ravenshield, Their RVS 1.5 patch effectively prevents anyone with installed CD

copy or drive-imaging software from running the game, regardless how legitimate their use for it might be.

The reasoning behind this rather underhanded move is to prevent piracy but this doesn't help stranded fans. The only salvation is to remove the offending software from your drives and try again - sans copy software. Nice! Your thoughts on this are welcome to our letters page...

DYNAMITE DIALUP

Contrary to popular belief you don't have to pay a small fortune for high speed Internet access. PlusNet are now offering their ADSL services for a meagre £14.99 per month. ADSL offers speeds up to three times faster than your average dial up connection at 150kbps which is more than ample for undemanding forms of web surfing. As a bonus it's always on and doesn't clog up the 'phone line. Need to know more? Head to www. plus.net for further details.

HITMAN RETURNS

Eidos' hit Hitman franchise is coming back for a third outing. Entitled Hitman: Contracts, the game is set for a debut in the Spring, and promises lots more action and suspense. Goodie. More at www. eidos co uk

XS OF IMAGES?

Memory card magicians Dane-Elec have come up with the goods again. This time it's in the form of their new CompactFlash Xs memory cards. Currently available in 128, 256, 512Meg and 1Gig flavours the cards offer speedy data transfer and a World Service Warranty. So, regardless where you are in the world if your card cracks up you'll have a shiny new one within 24 hours!

Further information can be found at: www.daneelec com

R.I.P SIR

The Internet visionary John Sidgmore has sadly passed away aged 52. The former CEO of disgraced WorldCom was best known for making the Internet at large available to the business world and subsequently the general public. Sir, we take our hats off to you. R.I.P

INCOME DISPOSED

> ON THE BOOKSHELF

Niall Quinn: The Autobiography £6.99

Footballer's biographies generally aren't the most cerebral of tomes, yet Quinn's book is something a little more substantial. Firstly, he's refreshingly open, especially when discussing the events surrounding Roy Keane's departure from the Irish World Cup squad of 2002. But it goes deeper than that, as he presents an accessible and entertaining glimpse into his life, which occasionally meanders, but on the whole is first class. Recommended

8/10

> ON DVD

The Man Who Sued God £19 99

Billy Connolly stars in this amiable-vet-forgettable Australian comedy. He plays a man whose boat is struck by lightning, only to find that his insurance company classes this as an Act of God. And when they refuse to pay up, he switches his litigation to a higher target. Some decent chuckles, the odd mawkish moment, and generally an undemanding rental. There's little on the disc in terms of extras that persuades us otherwise, either.

6/10

PUBLIC SERVICE **ANNOUNCEMENT**

The word of the web



A recent EU survey indicates online services such as job searches and libraries are becoming ever more

popular, It seems more than 79% of European web users are willing to tout the virtues of various sites to friends. In fact us lot here in

jolly old Blighty rank in second place behind the Germans for passing things on by word of web. It's the ease and free availability of information on the web that has us snared it seems. They don't call it the information super highway for nothing.

SNAPPY LITTLE SONY

Versatile gadget, it is

Quick hide, it's a camera! Or more specifically it's Sony's latest camera, the Cyber-shot DSC-U4O. Not only does it look smart in sleek silver, black or blue but it also has a host of great features including a 1 inch LCD display which works wonderfully in both daylight and low light settings. It also comes equipped with five pre-set modes for optimal snapping in common settings such as twilight and outdoors and is capable of recording short snippets of video footage. To boot you can print directly from the camera using PictBridge software.

There's no information on pricing as we went. to press, so if you want to snap one up, you may need to find out more at



CANOPUS CRACKER

Give yourself some control



Canopus recently announced the launch of their 'MPEGcraft DVD' software. It features MPEG 1

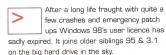
& 2 editing and DVD authoring capabilities allowing MPEG 1 & 2 film clips to be mixed with no loss of quality.

Once converted, files can either be burned straight to disc or saved for future use ready encrypted to burn as DVDs. Useful huh, well that's not all it does 'MPEGcraft' gives you full editorial control over your recordings with options such as manual or automatic placing of chapter breaks and subtitling.

This bit of kit is available now bearing the tidy tag of £81. www.canopus-uk.com has the bigger picture.

IT'S TOO LATE FOR 98

Microsoft confirm the end



As of January 16th Microsoft will cease providing updates for Windows 98 and withdraw it from sale. However, should something monumental crop up in the security department it will be exhumed and patched as necessary and online technical support will still be available to a limited effect.

98 leaves the lasting family legacy of ME, XP and 2000 in its wake each with their own loveable little idiosyncrasies. No flowers, please.

WINAMP GOES BACK TO BASICS

Less is more?

Sometimes you need to take a few steps back to go forward. As AOL, current owners of Winamp have found out. New Winamp 5 is reported to have taken a leaf from a much earlier time basing itself heavily on versions 2 & 3. The previous version was reputed to be a rather large, slow creature. So, AOL have gone back to basics merging the best aspects of previous incarnations to create a much snappier program. There's also word of a pay-to-use 'Winamp Pro' which has MP3 encoding capabilities and links to the Shoutcast streaming radio service. Go to www.winamp.com for further info.

MY FAVOURITE PROGRAM

This week's useful utility, Soundcapture, comes recommended by Mr J. Moore. "Soundcapture is a little freebie-ware thing that I got from download.com. And my word, it's cool. It allows you to record the output of your soundcard or any of the connections it offers - straight back onto your hard drive. Perfect for those web streams you want to keep for posterity. Download it from www. magicsofts.com or www. download.com."

Remember, if you know of a useful utility, let us know about it. Just send a few words including its name, what it does and where you got it to us at editorial@micromart.co.uk

OUR WEEK IN WEBMAIL

Well we've been feeling rather homely this week all in all after finding a nice little selection of household secrets floating around in our inbox. We now know everything from the ins and outs of Cat ownership to how to get cork chips out of a bottle of plonk. (What's wrong with using a spoon, may we ask?) So now we can all curl up with our tipple and the moggy in perfect safety - we'll be sure to pass the cat tips onto Simon, hopefully it'll help him sort out relationship difficulties with his rather ferocious feline.

Some thoughtful individual has also decided to play matchmaker for us, or should we say Russian Roulette because we seem to have found our way onto the Russian Brides mailing list. That's all well and good but we'd rather go to Hawaii. It's much warmer at this time of year.

If you've spotted any mad mailing lists on your travels around the web sign us up, just make sure they're clean please!

Our address is micromart@email.com

SUN FUNDS ALIENS

Cash injection imminent



distributed computing, the program uses unused processor cycles to analyse data which is then sent back to the program HQ. All the user sees is a screensaver. Get a beta version of the next generation over at http://boinc.berkley.edu/



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260.84	306.46	270.36	317.68
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0.0000000000000000000000000000000000000	128Mb BRANDED Original PC133 DIMM (Single Sided) 258Mb BRANDED Original FC133 DIMM (Single Sided) 512Mb BRANDED Original FC133 DIMM 258Mb DDR (PC2700) 333 512Mb DDR (PC2700) 333 DDR400 (PC3200) Now Available	21.34 37.90 56.32 22.50 44.83 CALL	44.53 66.18 26.44 52.68 CALL	O-Lisk DE-SARTX PCI (0/10) Ehrment O-Lisk DWA-ABSSD Wineless Cardibla Astighty— 1-Lisk DWA-ABSSD Wineless PCI Adapter O-Lisk DWA-ABSSD Wineless PCI Adapter O-Lisk DWA-000A-P-A-PFus Access Point O-Lisk DWA-000A-P-A-PFus Access Point O-Lisk DWA-00AP-A-RPus Access Point O-Lisk DWA-00AP-A-RPus Access Point O-Lisk DSL-21ME VR. MSSD, Microfilder O-Lisk DSL-20ME VR. MSSD, Microfilder O-Lisk DSL-50A ADSL Router with 4port 10/100 Switch	8.67 52.73 65.97 34.10 60.21 7.45 81.29	10.18 61.96 77.51 40.07 70.75 8.75 95.52	1
200100000000000000000000000000000000000	Wide Range of Multimedia Memory is available MICE and KEYBOARDS	ONLINE Ex Vat	ONLINE Inc Vat	EPOX Bluetooth USB Dongle PRINTERS / SCANNERS	19.80 ONLINE Ex Vat	23.27 ONLINE Inc Vat	1
TO STOCK WINDS STOCK OF	Windows 95 Keyboard Black Windows Keyboard Cherry RS6000 Keyboard PSZ Mouse Genius Comfly KB-06X PS/2 (Black)	4.50 4.46 12.49 2.95	5.29 5.23 14.67 3.47	Hewlett Packard Deskjet 3550 Hewlett Packard Deskjet 3650 Hewlett Packard Deskjet 5650	40.36 48.83 84.63 114.45	47.43 57.37 99.44 134.47	2
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	Genius Netscront Eye PS/2 Genius Powerscroll Eye USB + PS/2 Metalic Genius RF Wireless PowerScroll PS/2	6.14 8.98 7.63	7.22 10.55 8.96 22.60 16.23	Epson Stylus C64 Epson Stylus C64 Samsung ML1710 Mustek 1200UB+ (USB) Genius ColorPage-Wiv04 1200XE	54.79 75.95 144.10 23.75 29.15	64.38 89.24 169.32 27.91 34.25	
	Cellink Wireless Optical Mini Travel Mouse Microsoft Internet Keyboard & Intellinouse Bundle Microsoft Natural Mulmeds RS Wheel Mouse Optical Bundle Microsoft Intellinouse PS/2 Microsoft Wiless Explorer v2.0 RTL	13.81 20.10 7.56 24.63 29.29	16.23 23.62 8.88 28.94 34.42	DIGITAL IMAGING NEW Mindta Dimage F300 Digital Camera NEW Canon PowerStot 480 NEW Olympus C-720 ULTRA 200M	ONLINE Ex Vat 291,23 262,90 218.08	ONLINE Inc Vat 342.19 308.91 256.24	
	Logitech Deluve Access Logitech Hoternat Navigator (PS/2 & USB) Logitech Cordisso Desktop Optical Logitech Pilot Wheel Mouse Logitech	11.75 18.75 71.88 7.66	13.81 22.03 84.45 9.00	Creative WebCarn NX Pro Logitech Quickcarn Messanger Logitech Quickcarn Zoorn	25.19 27.30 36.20	29.60 32.08 42.54	
UVE	Logitech Cordiess Mouse Logitech Pilot Wheel Mouse Optical Logitech Cordiess TrackMan Wheel Logitech Cordiess Mouseman Optical NEW Logitech Cordiess Desktop Optical OEM Black/Silver	15.95 14.59 26.00 32.89 31.88	18.74 17.14 30.55 38.65 37.45	PSU & UPS 300W ATX TUV Power Supply	ONLINE Ex Vat	ONLINE Inc Vat 16.89	
	MODEMS	ONLINE Ex Vat 8.69	ONLINE Inc Vat	425W HEC PSU 350W ATX PFC-350A Morex PSU 350W Enermax Multispeed PSU (EG385P) 460W Enhance ENS- 0246 PSU	17.60 16.25 34.65 59.95 ONLINE	20.68 19.09 40.71 70.44 ONLINE	
	56K Genius Internal GM56PC-LA 56K Genius External GM56PC-LA 56K Genius External GM56E-V2 56K/V90 Speedoom USB Modern 56K Sparkle Rockwell Ext V90 Sparkle ISDN PCI Modern	10.04 22.91 14.63 17.05 15.95 20.90	11.80 26.92 17.19 20.03 18.74 24.56	SOFTWARE Microsoft Windows 98 OEM SE Microsoft Windows XP Home Edition OEM Microsoft Windows XP Professional Edition OEM	56.93 53.04 85.25	66.89 63.32 100.17	G
	Sparksom ADSL PCI Modern Sparksom ADSL USB Modern D-Link DSL-200 ADSL External Modern (USB)	24.75 45.94 ONLINE Ex Vat	53.97 ONLINE Inc Vat	Microsoft Works 2017 OEM Microsoft Works 2017 OEM Microsoft Works Suite 2004 OEM Microsoft Works Suite 2004 OEM Microsoft Office 2000 SB Editing OEM Microsoft Office XP Small Business OEM Microsoft Office XP Professional CEM	123.21 125.86 188.87	16.94 43.88 144.77 147.89 221.92	
	15" Proview KX562NS	54.00	PO AF	SOUNDCARDS	ONLINE		
	17" Proview KX772NS CRT	54.00 64.00 95.00 179.00 183.00	63.45 75.20 111.83 210.33 215.03	Sound Bleeter 4.1 Dinital OFM	10.25 19.66	ONLINE Inc Vat 12.05 23.10	0
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ALL TRADEMARKS AND REGISTERED TRADEMARKS ACKNOWLEDGED. E&OE

IT'S 2004! TOP TEN

Hungover.net

www.hungover.net It's easy to feel hung over at this time of year, so hit the appropriate level on the 'Pain-ometer' to find relief. But if all that's too much like hard work right now, just 'flush' for a Random Cure!

FarthCam

http://newyears earthcam.com Can't remember where in the world you got to on New Year's Eve? Check out the generous collection of web cam locations at EarthCam's site. If Times Square, 2003 and a lime green party hat sound familiar, the Archive could answer some questions!

TheHolidaySpot

www.theholidayspot.com/ newvear

At the Holiday Spot you'll find a section about New Year customs and some thought-provoking quotes, sayings and proverbs said about Time. And you're invited to Post Your Resolutions before heading off to discover some dietbusting recipes to try this New Year!

Hi Aspire

www.hiaspire.com Now there's no excuse for forgetting those New Year Resolutions! Sign up for the free monthly email reminders from 'Hi Aspire' and start looking forward to meeting your personal goals. For even more motivation, check out the Subscriber Success Stories.

The Midnight Watch www.fortunecity.co.uk/ meltingpot/oxford/330/

mwindex.html Traditionally a time for reflecting on days gone by, pay a visit to this site dedicated to the Home Front Brits who lost

their lives in WW2. Check out those Food Rationing suggestions for Christmas and New Year recipes ... yum!

THIS IS RADIO BROADBAND

Reaches the parts others can't reach?



Those nice, but money hungry, individuals from British Telecom are considering offering a radio

based high speed Internet service for everyone beyond the reach of conventional technology. The service, currently on trial with a select few households in the further reaches of the British Isles, works on a simple two-way radio principal

with signal being sent from a base station to an antennae in the users house thus providing an ADSL speed Internet connection. The trials continue until March, and it could - if all goes to plan - provide a lifeline for those looking for broadband access in regions not currently covered. Watch this space...

CHRISTMAS PIRATES FOILED

Lots of copies



ELSPA, Trading Standards and over a hundred police officers no doubt treated themselves to a drink in the pub after successfully raiding over £10m worth of pirated goods at Ingleston Market in Edinburgh.

The move focused in on six traders selling pirated games, music, films and software, and is the latest in ELSPA's (the European Leisure Software Publishing Association) fight against counterfeiters.



NEWS COMPILED BY: SIMON BREW, MICHELLE WILSON, ROB MCLAUGHLIN, LINDA PURNELL

TOP TEN SALES CHARTS

PC UTILITY

- 01 POSTER MAKER
- 02 PAINT SHOP PRO 8
- 03 NERO BURNING ROM V6.0
- 04 115,000 CLIP ART IMAGES (+ WEB IMAGES)
- 05 AUDIO CLEANING LAB 4.0 DELUXE
- 06 3D HOME DESIGNER
- 07 100 000 CLIPART & WEB GRAPHICS
- **08** GREETING CARD FACTORY DELUXE 2
- 09 EASY CD/DVD CREATOR V6.0 PLATINUM
- 10 ADORE PHOTOSHOP ELEMENTS 2 O

TOP TEN SALES CHARTS

PC HOME

- **01** NORTON INTERNET SECURITY 2004
- 02 NORTON ANTIVIRUS 2004
- 03 MICROSOFT OFFICE 2003 STUDENT 04 MCAFEE INTERNET SECURITY V6.0
- 05 VIRUS SCAN 8.0 HOME EDITION
- 06 NORTON ANTIVIRUS 2004/FIREWALL 04
- 07 MICROSOFT MONEY 2004
- **08** NORTON ANTIVIRUS 2004 UPGRADE
- 09 NORTON INTERNET SECURITY 2004 UPG
- 10 MICROSOFT PLUSI FOR XP

KAZAA **CRISIS**

The Lite Goes Out



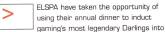
Not content with allegedly filling your computer full of spyware, Sharman Networks, developers of the popular file share program Kazaa have taken it upon

themselves to cry copyright infringement on spyware free rivals KaZaA Lite K++. This move has effectively put K-Lite out of commission, just to make sure they've also had KaZaA Lites listings removed from most major search engines and download links on their website taken offline.

Many users had adopted for Kazaa Lite as, unlike the official version, it didn't have the need to infest your machine with spyware. It thus built up quite a legion of support, something that clearly didn't go down very with Sharman. Odd that.

FAMOUS DARLINGS

Immortalised forever



their hall of fame. Richard, David and Jim Darling are the driving forces behind Codemasters, who kicked off with a budget 8-bit game called BMX Simulator, and went on to make the risible Pop Idol tie last Christmas, Still, they have thrown up plenty of classics in their time, not least the Colin McRae Rally series. Which we like. Only the second recipients of the prize, the assorted Darlings were mighty pleased with their honour, which is designed for those who have put the UK gaming scene on the market. Good on 'em.

A LIGHTER LOOK AT COMPUTING



"Hold on, I'm loading my 'I know the face but not the name' software.'

CHARTS COMPILED BY CHARTTRACK (C) ELSPA

TOP TEN SALES CHARTS

GAMES

- **01** CHAMPIONSHIP MANAGER: SEASON 04
- 02 THE SIMS: MAKIN' MAGIC
- 03 CALL OF DUTY
- 04 THE SIMS DOUBLE DELUXE PACK
- 05 KNIGHTS OF THE OLD REPUBLIC
- 06 MAX PAYNE 2: THE FALL OF MAX PAYNE
- 07 THE SIMS: SUPERSTAR
- OS LORD OF THE RINGS: RETURN OF THE
- 09 NEED FOR SPEED: UNDERGROUND
- 10 FIFA 2004

TOP TEN SALES CHARTS

BUDGET

- 01 THEME PARK WORLD
- 02 THEME HOSPITAL
- 03 WHO WANTS TO BE A MILLIONAIRE
- 04 SIM CITY 3000
- 05 COLIN MCRAE RALLY 2.0
- 06 SHOGUN: TOTAL WAR
- 07 LEMMINGS FOR WINDOWS
- OS SONIC 3D
- 09 AGE OF EMPIRES GOLD
- 10 TIGER WOODS PGA TOUR 2000

IT'S 2004! TOP TEN

123Greetings www.123areetings.com/ events/new year Raise a toast, celebrate New Year, and send a classy, cute, or funny e-card to your friends and family - there are plenty of free e-greetings cards to choose from at 123Greetings. Why not bookmark the site for all those celebrations throughout the year?

Time And Date www.timeanddate.com When you want to check out the time, head on over to Time and Date. Not only is there a handy Meeting Planner to help with those international conference calls but you can also personalise a World Clock with up to 16 cities!

Scotland On Line www.new-vear.co.uk Although the site and competitions might be a little out of date, the web cams are still showing Edinburgh at it's finest! Make your Resolutions online, send an e-greeting or two, and check you got all those essential items before you go "first-footing"!

The Official Robert Burns Site www.roherthurns.org Over at the Official Robert Burns site you can discover everything you ever wanted to know about Scotland's national bard - including the real lyrics to Auld Lang Syne! If that's got you longing for a tasty Celtic treat, try some Supper recipes.

A Brand New Year http://a-brandnew-year com

There's no better time to make a fresh start than today! You'll find plenty of practical advice if you want to get in shape, figure out your relationships, keep all your New Year Resolutions or er, simply relax in a hammock!

Got something to say? Then why not say it here! Every week, we publish a selection of your letters so to have your say, get scribbling to:

Opinions Micro Mart Trinity Publications 1st Floor Edward House 92/93 Edward Street Birmingham B1 2RA

Or if you prefer, you can send us your note via e-mail. Just address is to: opinions@micromart.co.uk

YOUR_LETTERS

TOILET READING MATERIAL

After noticing a couple of readers sending in pictures of their young children reading Micro Mart, I knew it was time to buy a digital camera to capture mine.

My youngest son always likes to help himself to one of the issues of Micro Mart I keep for toilet reading material, and when I happen to be on the toilet, the results are amusing, to say the least.

Steve Beaumont

Er, we're getting a little worried now as to the direction all of this is taking...!



EGO TRIP

Since I've started writing for Micro Mart, I've only once before sent in an e-mail to address some interesting points raised. Regarding Thomas Holzer's e-mail in issue 778, it would be interesting to know when the two 3D games he speaks of (Crypts of Chaos and Escape from the Mind Master) for the Atari VCS-2600 were first released. The earliest program I can find that is based on the basic "Doom" principle, that is to say a 3D-first person prospective game, is Tunnel Vision for the Commodore PET, dating back to 1978. I assume the games that he has mentioned took the concept of Tunnel Vision further, and is later than 1978.

but I would like to know the very first ever 3D perspective game for a home system. Can anyone else offer any information?

He also mentions the CD-ROM from the eighties (by Codemasters and Rainbow Arts) when referring to Allan Bairstow's review of Metal Warrior 4 for the IDE64. He is right to point this out, and in theory the C64/128 has been able to access CD-ROMs in a variety of ways, including through the SCSI-Based hard drive from CMD. Firstly, I wonder whether or not Codemasters/Rainbow Arts used their own formats for reading the CDs? Secondly, it has been far too expensive to consider CD-ROM software for the C64 until recently due to cost per disk and the expense of external CD-Rom drives themselves. The IDE64 device has changed this, as IDE devices are now very cheap, as is CD duplication. There is also a standard format to work to.

As for Gordon's article on pages 44 and 45, there has been some debate to the meaning of the acronym PET. Some insist that the actual meaning is "Peddle's Ego Trip" rather than "Personal Electronic Transactor". I guess those would be jealous engineers who wish they'd thought of it first? Okay, I've put in my two-pennies' worth. Better get back to writing my column.

Shaun Bebbington E-mail

SIMPLY OVERWHELMS IT

Your "10 most useless pieces of hardware..." item in issue 778 was very timely. Ive just, this week, switched to BT Yahoo broadband, and my PC has got slower and slower and opening multiple windows simply overwhelms it and it crashes. Apps are very slow to open, and even slower to close, and until I got this week's mag I was at a loss to know why. The supplied modem is the Alcatel Speedtouch, a slightly different design from the one in your article but just as power-hungry, it seems. Connecting via a powered USB hub has solved the problem,

but the cost has wiped out much of the saving from BT-Y's free modem/connection offer and, needless to say, I'm not too thrilled.

Ron Graves Prenton

Any more recommendations for not particularly favourable hardware or software items?

SUPPORTING AMIGA

Please carry on supporting Amiga, with maybe two pages a week? Also, we need sellers to advertise their wares, from AmigaOnes to OS4 and emulators running OS3.9 or OS4.

Ron Mann E-mail

We certainly will keep supporting Amiga in Micro Mart, although we've no plans at present to increase the Amiga Mart section to two pages (although if there is enough demand, it's something we'd consider). As for sellers advertising their wares, we suspect that will come more over the coming months as the Amiga slowly makes its way back into the limelight. It certainly stands to be the best year for the format in some time...

REM STATEMENTS

Reading Eric Lomas' reaction to Mark Pickayance's article on Waiting For The ZX Spectrum stirred some memories of my own. I was particularly taken with Mark's description of the programming lists that used to be the staple diet of magazines of the time. My favourite part always used to be the REM statements at the start of them. Surely I wasn't the only one who thought in those early days that the REM statement had to be accurately reproduced for the listing in question

Also, who remembers the Spectrum +, where if you took it out the box the wrong way round, some of the keys fell off? Those were the days...

Roger Westworth Surrey

THIS WEEK'S COLUMNIST: ADAM ANDERSON

ADAM SAYS



Over the past few weeks I've shamelessly used this column as a forum to make public my disgust at BT's approach to ADSL. I personally feel that it uses its monopoly power to retain a dominant position in the market, and hence to make huge profits from the likes of you and I. Until earlier this year I was that rare thing, a happy customer of NTL, but at Easter time I moved to an area without cable and was forced to embrace BT.

This morning I received my BT phone bill for the last quarter, and at the bottom is the surprisingly huge figure of £276.29 inc VAT, so you can regard this column in the same way as someone saying 'And another thing ...' when you thought that the argument had drawn to a final close.

My bill includes a sum for installing a new phone line, as well as line rental, but the total for voice calls is a paltry £29.88. The single largest element of the bill is £120.75, which is humorously classed as Lo-call. This is for three weeks of dial-up Internet

access while I was between ADSI installations after I moved house (again), in which time I was on-line for slightly under 90 hours. By any standards that's a long time, but my monthly ADSL charge is £29.99 for an unlimited 576Kb connection, while BT Anytime customers pay £15.99 for unlimited dial-up.

In three weeks I have run up a bill equivalent to four months of ADSL charges, or seven and a half months of BT Anytime, and this is entirely due to BT's refusal to transfer my service speedily and at the customer's convenience.

I owe the money for this bill to BT, but my gripe is with my ISP BT Yahoo. BT Yahoo tells me that its hands are tied by BT Wholesale, the company that provides ADSL lines at the exchange. I am not a customer of BT Wholesale and you won't be surprised to hear that it has no interest in talking to me.

It is clear to me that the BT group has made far more money from me by restricting me to dial-up for three weeks than it would have if I had been reconnected to ADSL in good time

For the last few years BT has run rings round Oftel. I have no reason to think that its replacement Ofcom will fare any better but for the sake of us all I hope that BT gets knocked into line, and soon. Ofcom has a three part review of this country's Telecoms industry planned to run through 2004, so there seems no reason why BT shouldn't keep on banking the cash for some time

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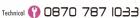
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THE HISTORY OF SEGA

Would you believe that Sega has been on the scene for over 60 years? We trace the history of one of the most dynamic games companies ever.

While hugely successful in the arcades, when it comes to home consoles, Sega has been more famous for its innovation than its dominance. Without a successful machine to its name since the 16-bit era. in 2001 the Tokyo-based company shocked the world by becoming a third-party producer, creating games for Nintendo, Sony and Microsoft machines. So will its new role in the videogames market give the struggling company a new lease of life? Its history suggests it will...

To uncover the roots of the company we came to know as Sega, we must go back to 1940, and the Honolulu-based Standard Games. After moving to Tokyo in 1951, the company was renamed Service Games of Japan (known as Sega, the taking the first two letters of 'service' and 'games'. It provided coin-operated entertainment games for the American military based in Japan. Obviously, these were not videogames - the first ever videogame coin-op didn't appear until 1971. Instead, they were electro-mechanical devices such as Punchbag, where you (unsurprisingly) punched a target and had the strength of your punch measured, and Grand Prix, where a road printed onto a drum was rolled under a model car.



ER BURNER, SEGA'S INTO-THE-SCREEN



In 1965 Service Games merged with Rosen Enterprises, David Rosen's brainchild that produced everything from photo booths to mechanical arcade games. Combining Sega's muscle with Rosen Enterprises' expertise proved a masterstroke, and the submarine simulator Periscope, released a year after the merger, became a worldwide hit. In 1969, Sega was sold to Gulf & Western Industries, with Rosen staying with the company as CEO.

In the 1970s the company gained a foothold in the emerging videogames scene, both in the arcades and on early home machines such as the Colecovision. But Sega was a small player compared to other videogames producers, and didn't have a huge hit until the coin-op Frogger was released in 1981. A simple affair, you controlled a frog, and picked your way between cars and trucks as you crossed a road, then rode on logs and turtles to cross a river to safety (this frog couldn't swim). The following year, Sega's revenues hit \$214 million.

1983 saw several firsts for Sega. Astron Belt was released, the first laser disc title, as was the first 3D game, SubRoc-3D. Sega also released its first home console, the SG-1000, in Japan. But choked by the emerging home computer scene, that year also saw a massive crash in the American videogames market. Gulf Western bought back the 20 per cent of Sega that had been floated on the stock market and sold the company's US assets to Bally Manufacturing Corp, a pinball producer that would eventually become Midway.

SEGA VS NINTENDO

The US arm of the company was gone, but in Japan Sega was doing fine. Vowing to diversify to stay ahead of the game and not rest on its laurels (presumably a decision made after analysing the decline of Atari), the company set about producing an alternative to the by-then supreme console of the day, Nintendo's Famicon (NES in the UK). The Master System,

specialfeature





released in 1985, was (like the Famicom) an eight-bit cartridge-based system. It sold strongly and was released in the West in 1987. Although arcade conversions, such as Space Harrier (a conversion of an early coin-op designed by the legendary Yu Susuki), Out Run and After Burner sold well, the Master System failed to break Nintendo's stranglehold on the home console scene. The Famicom/NES held an estimated 95% of the market, with the Master System occupying the other 5%. There were a few other, very minor players, but their market share was too

As the eight-bit market declined over time, both Sega and Nintendo planned their next-generation machines.

small to measure.



FROGGER, SEGA'S 1981 SUCCESS

Determined not to let the opposition enjoy a head start like they did with the previous generation, Sega released its 16-bit console in 1990, a full year ahead of Nintendo's Super Famicom (SNES in the UK). The Genesis (Mega Drive in PAL territories) was aimed at an older audience than the Master System, and boasted great arcade conversions such as Golden Axe, Super Hang On and Altered Beast. Sega was playing to its strengths. Unfortunately for them, Nintendo also played to its strengths, and released the SNES in 1991, along with Super Mario World. The machine sold on the back of the incredibly-successful Mario franchise, and cut into sales of the Mega Drive. Sega needed a character of its own. That character was Sonic the Hedgehog.

SONIC THE HEDGEHOG

Released in 1991, the game of the same name attempted to wrestle the platforming crown from Mario by NOT playing him at his own game. Where Mario titles were sedately paced and based on exploration. Sonic's first outing went all-out for speed. The arguments over which character was best would rage for years, though as 3D gaming came into its own Mario would reassert himself. In 1992 came the Virtua Racing coin-op, which pushed the then-emergent 3D gaming to new levels. It wasn't the first 3D racer (Atari's Hard Drivin' came out three years earlier), but it certainly did much to push 3D gaming into the mainstream.

Alas, it was around this time that Sega's success with console launches came to an end. The Mega CD, a CD add-on for the Mega Drive, flopped due to lack of third-party support. What games there were tended to be Mega Drive ports with souped-up music tracks. Sega's attempt to break Nintendo's Game Boy monopoly on handheld gaming, the Game Gear, also fared poorly. Despite full-colour graphics and some great games, a stupidly-short battery life killed it as a portable.

1993 saw one of Sega's most important coin-op releases ever. Virtua Fighter was a truly 3D beat-'em-up, the first of its kind. Its characters, with their rather obvious polygons and lack of facial



detail, look somewhat primitive today. But in the era when 2D fighters such as Mortal Kombat and Street Fighter were king, it gave birth to an entirely new subgenre. On the console front Sega once again wobbled, with the 32X, a Mega Drive add-on that gave the machine 32-bit power. Once again third party support was limited, and it seems gamers just weren't interested in console add-ons.

As the buzz surrounding the Sony PlayStation began to take hold, Sega planned its next venture. Released in Japan a few months ahead of Sony's soon-to-conquer-all machine, the Saturn was planned as the ultimate 2D console, though when Sony released the specs of the PlayStation, a second processor



YU SUSUKI'S VIRTUA FIGHTER FOUNDED THE SUB-GENRE THAT GAVE US TEKKEN AND SOUL CALIBUR. A VIRTUA FIGHTER MACHINE IS ALSO ON DISPLAY IN THE SMITHSONIAN'S NATIONAL MUSEUM OF AMERICAN HISTORY IN WASHINGTON.

THE HISTORY OF SEGA <1....SPECIAL GOODS

was added to the design to boost its 3D effects. Bundled with Virtua Fighter, it sold well until the PlayStation was released. Superior support from developers gave Sony's far more programmer-friendly machine the edge it needed, and Saturn sales soon dried up.

SEGA DREAMCAST

Despite yet another console flop, the arcade division went from strength to strength. The racing title Daytona USA allowed arcade owners to link machines, making multiplayer gaming possible. Sega Rally, Virtua Fighter 2, Virtua Cop and Virtua Striker soon followed, and all were ported to the Saturn. Alarmingly, though, there was no killer Sonic the Hedgehog game, leaving the Nintendo 64's Mario 64 to sweep the field.

With the Saturn fading,
Sega looked to its nextgeneration machine.
Variously referred to as the
Black Belt or the Dural (after
a Virtua Fighter character),
it was eventually shown to the public
as the Dreamcast in 1998. This was
gaming's first 128-bit console, and it had
a modern straight out of the box for online
multiplayer gaming. There was also Virtua
Fighter 3 and a 3D Sonic game, at last.
Third party support was strong, though
industry giants Electronic Arts never



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supported the machine. In the arcades, Sega released a series of games loosely based around real-life careers. Crazy Taxi had you ferrying passengers from A to B, and other games involved putting out fires, transporting patients through a hospital and driving trucks.

However, Sony's PlayStation brand was so strong many considered the Dreamcast to be little more than a stop-gap. Also, the company made some bizarre marketing decisions, including sponsoring the Arsenal

football club and trying to emulate Sony's surreal adverts, with the Dreamcast's 'swirl' logo used in the same way as the PlayStation's button symbols. What they didn't seem to realise was that Sony's adverts worked because the brand had already been established in the public

eye, to the point where you couldn't fail to associate the commercials with the product, even if the connection wasn't immediately obvious. This just wasn't the case for the Dreamcast. Sales of Sega's machine slid, and the company's market share fell to alarming levels.

In 2001. Sega made an announcement few could have predicted. The company stopped developing consoles altogether, and became a third-party developer for other games systems. Pulling out of the console war allowed them to concentrate on producing exciting games. And it also gave gamers who owned Nintendo, Sony or Microsoft machines the chance to play Sega titles such as Crazy Taxi, Sonic Adventure and Shen Mue. Coin-op development continues, with increasing ties with other manufacturers again paying dividends. The Triforce arcade board was developed along with Nintendo and Namco, giving rise to the incredible F-Zero AX.

Although out of the console manufacturing business, Sega's new



SEGA'S DREAMCAST FRANCHISE, SPACE CHANNEL 5, IS A RHYTHM-AND-DANCE OUTING FEATURING SPACE REPORTER ULALA. IT'S NOW AVAILABLE ON THE PLAYSTATION2 AND GAME BOY ADVANCE

outlook can only be a good thing for gamers. With the company no longer burdened by the demands of developing home machines, its resources can be channelled into what Sega has always done best, and that's producing really great games.

SEGA TIMELINE

- 1940: Standard games is founded in
- Honolulu.
- Service Games of Japan (Sega) is registered, and provides coinop entertainment machines for the US military based in Japan.
- 1965 Sega merges with Roser Enterprises Inc.
- 1986: Submarine game Periscope is
- 1869: Sega sold to Gulf Western Industries/
- 1988: Despite several groundbreaking products, Sega suffers in the
- 1984: Sega Enterprises bought b
- 1986: Sega is listed on the Japanese stock market, and Sega of America is formed. The Master System is release
- 1990: The Mega Drive (Genesis) is released.
- 1991: Sonic the Hedgehog is born.
 1993: Yu Suzuki creates Virtua Fighte
- 1994: The Sega Channel launched.
 1995: The Sega Saturn is launched.
 - 1939. The bega bacarri is loanered
- 1996: Saturn NetLink is released.

 1999: The Dreamcast hits the shelves
- 2001: Sega announces it will produce games for other console platforms as a



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E-MAILS THAT SHOULD NEVER HAVE BEEN SENT

E-mail is a wonderful asset, but misusing it could cost you dear. We take a look at a handful of incidents where someone was left VERY sorry they put finger to keyboard...



>

It can't be stressed enough.

Although often used in a conversational, informal

manner, e-mails are permanent records of correspondence. A badly-planned e-mail can be used as evidence in court, cost you your job or cause you unimaginable embarrassment, as several people have already found. to their cost.

Claire Swire was certainly embarrassed when her indiscreet e-mail got widely distributed to complete strangers. After exchanging a smutty joke with her partner Bradley Chait, in her now famous email, Ms Swire made reference to a sex act that had occurred between them. Unfortunately Mr Chait, a lawyer with London firm Norton Rose, didn't feel the need to keep it to himself. He sent it to six of his friends, adding the comment, "Now that's a nice compliment from a lass". In turn they sent it on to their friends. who passed it on to yet more friends. Soon the e-mail, by now titled 'Do you know Claire Swire?', turned up all over the world and was read by an estimated

ten million people. Chait faced disciplinary proceedings for misuse of his company's e-mail system, and an embarrassed Swire went into hiding. The rapid spread of an e-mail in this way has now become known as the Swire Effect.

Jacqueline Kim's equally-tactless email also caused her embarrassment. After a blind date in June 2002, she sent a long missive marking the man she met on things like appearance, clothes. conversation and manners. Although not too private (the e-mail claims 'nothing happened' between them), her comments showed her to be shallow and selfsatisfied, seemingly taking more interest in her partner's material wealth than his personal worth. She describes his car. his apartment, his money, his job and his boat, which she found unimpressive as it only seats six. She went on to say unless he sends her gifts, the relationship won't get far. It's this mercenary outlook which caused net users to delight in her embarrassment, and as she rather foolishly left her work address and phone

number in the signature line, she was soon avalanched with calls.

Ms Kim's date that evening, day trader Casev O'Brien, confirmed her tale was 'pretty accurate', which is more than the woman in Trevor Luxton's tale did. His email of October 2002 was later exposed as pure fabrication. According to Luxton, while his fiancée was away, a friend of his called Laura came round and proceeded to perform a sex act on him while he watched a football match, drank beer and (incredibly) answered a phone call from his intended. The e-mail was sent to a few friends and then spread around the internet (the Swire Effect), embarrassing his employer, French bank Credit Lyonnais. He was suspended on full pay for misuse of company e-mail, and later resigned. Incredibly, his fiancée stood by him.

TAKING THE PRIZE

When it comes to embarrassing yourself by letting personal e-mails get out of control, Peter Chung's missive of May



2001 must surely take the prize. The 24-year-old worker at The Carlyle Group took a new position in Korea, and used his office e-mail to send a near-obscene message to a dozen colleagues at the New York office where he used to work. In it he expressed his intention (in disrespectfully graphic terms) to '[have sex with1 every hot chick in Korea', and boasted about his prowess and success with the local ladies. Like Jacqueline Kim, he unwisely left his company email, address and phone number on his signature too. He was promptly fired.

Another e-mail that cost the sender his job was sent in April 1999, when Jim Neugent, a TV viewer in Arkansas, wrote to ABC TV to complain about a storyline dealing with homosexual marriage in the hit show The Practice. He suggested this was inappropriate as homosexuality is (in his view) condemned in the Bible. For some reason, rather than going to the complaints department the e-mail was sent to the webmaster, who unwisely decided to reply himself even though he had no authority to represent ABC TV in this way. His reply was somewhat rude, taking issue with the Bible and drawing attention to the Declaration of

Independence. Whatever your views on Mr Neugent's intolerant attitude, the unnamed webmaster's reply was certainly unprofessional, and cost him his job.

Another indiscreet e-mail that (eventually) cost the sender's job was Labour aide Jo Moore's infamously tactless memo sent on September 11th, 2001. With the world's eyes on the terrible events at the World Trade Center and The Pentagon, Moore wrote, "It is now a very good day to get out anything we want to bury. Councillors expenses?". What she meant was any news released on that day would go unnoticed, overshadowed by the terrorist attacks and barely mentioned in the media. Incredibly, she kept her job in the Transport Department, but the incident did untold damage. In February 2002, when it was alleged she attempted to release bad rail statistics on the day of Princess Margaret's funeral, she was forced to resign.

Jonas Blank, a summer intern at law firm Skadden, Arps, Slate, Meagher & Flom, managed to avoid being fired after apologising for another miss-sent mailing. His e-mail described a leisurely day in which he did little or no work and took a

Likewise there Likewise, there are e-mails supposedly from financial institutions such as PayPal, eBay, Earthlink and various banks. These mails ask you to follow a link to a web site where you input your details, including passwords and credit card details, 'to update our records'. These sites are fakes

account information. No legitimate financial institution will EVER ask for passwords online. Finally, most spam e-mails offer a link to click on to remove yourself from the mailing list used to send you the spam. Don't do it. By clicking the link you confirm your e-mail address is active.



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two-hour lunch, despite having things to do. Intending to send it to just one person, instead it was forwarded to a mailing list of 40 people at the company, including 20 partners. It was quickly followed by an apology for his lack of professionalism. He kept his job.

Perhaps the most serious misuse of email occurred in 1997, when employees at Norwich Union used the company's internet to spread a libellous comment about competitor West Provident Association. The company was sued, and ordered to pay £450,000 in damages. It seems rogue e-mails can cost more than your job...

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THEY ROCKED THE COMPUTER **WORLD:** NINTENDO AND MARIO

Nintendo's colourful creations have influenced several generations of games, and no character has been more influential than Mario. This issue we look at his games, and check out their influence on what's come since.



No character in the history of videogames has been more influential than Nintendo's

flagship creation, Mario. Ignoring the endless licensed spin-off goods, the diabolical movie and the kids' TV cartoon. the real influence of Mario is his games. Every generation of Nintendo console has seen a new Mario game, and almost without exception, every game has broken new ground and introduced concepts and devices other games designers soon copy. So what's so special about him?

At first glance, Mario seems an unlikely videogames hero. He's a little overweight, he wears desperately unfashionable dungarees, has a terrible moustache and sports a stupid hat that was only put there because the hardware used for his debut game (Donkey Kong) hadn't the graphical wellie to draw hair. And yet, a whole world has grown around him, with all sorts of colourful (and easily recognisable) characters and features fleshing out the Mushroom Kingdom. Mario is an unlikely success story, but it's the sheer quality and innovation of the games that's turned him into a household name

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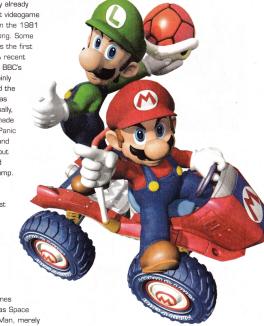
As you probably already know, Mario's first videogame appearance was in the 1981 coin-op Donkey Kong. Some would argue this is the first ever platformer. A recent contestant on the BBC's Mastermind certainly did, only to be told the correct answer was Space Panic. Actually. a case could be made for either. Space Panic featured ladders and horizontal floors, but although you could fall, you couldn't jump. The gravity factor gives it a tenuous claim to be the first platformer, but Donkey Kong was the game that set the trend. It was also unusual in that it offered four unique screens to battle through. Most games of the time, such as Space Invaders and Pac-Man, merely offered the same screen with increasing difficulty. Another first for Mario and Nintendo.

MARIO BROS

Jumping on the heads of enemies to destroy them is now a platforming cliché, but it was fresh and new when first seen in Mario Bros, an arcade coin-op from 1983, later converted to the NES. Also. although it wasn't the first game to feature two-player simultaneous play (Joust came out a year earlier), it certainly popularised

demanded you take it in turns in two-player games would look dated.

But by far the greatest gameplay impact of Nintendo and the Mario Franchise came with Super Mario Bros, a 1985 NES title. The term 'classic' is grossly over-used, but it could've been coined for this game. Its list of firsts reads like a how-to guide for platform designers. It was the first ever horizontal scroller. Hidden areas, a feature found in every platform game since, were pioneered in Super Mario Bros, as was the power-up, in this case a mushroom



that made Mario grow bigger. Another first was extra lives, obtained as items through the course of the game, as opposed to being awarded for reaching a points total. Without Super Mario Bros, there would be no Metroid, Castlevania or (ironically) Sonic the Hedgehog. As well as being a creative success, the game also boosted the videogames market, which had crashed in the early eighties. If you include carts bundled with the machine, it's the best selling game ever, surpassing 40 million copies.

Super Mario Bros 2 also introduced new elements into the platform genre, most notably the fact that there were multiple routes to take through the game. You could choose between four playable characters too, each with their own abilities. For Super Mario Bros 3, there were more power-ups, turning Mazza into Fire Mario, Racoon Mario or Invincible Mario, if collected when he was large, and he could now squat-jump, super-jump and pick up or kick defeated enemies. It didn't revolutionise the genre like the original, but it did sell 17.5 million copies, making it the best-selling game never to have been bundled with a machine.

SUPER MARIO

If the impact of Mario's eight-bit outings was to revolutionise the platform genre and establish its classic features which still hold today, the 16-bit era saw Mario right on form with the epic Super Mario World. Again it was bundled with the machine, continuing the trend of using a blistering game in Nintendo's mostcelebrated franchise to sell the hardware. And again, the game had a huge impact on the gaming scene. Super Mario World was the first platformer to let you re-enter completed stages and hunt for things you missed first time around. It also set a trend when it came to development teams. Shigeru Miyamoto's 30-strong squad was huge by the standards of the day, and ushered in a new era of big-team production. Unfortunately, it also set a trend of first-party bundled games raising the bar too high, with so much time and effort invested in the flagship game used to sell the console, future releases pale by comparison. Only its sequel, Yoshi's Island,

even began to approach the quality of Super Mario World.

Another notable SNES Mario game that had a huge impact on the gaming scene was Mario Kart. This was intended as a throwaway novelty game used to demonstrate the machine's new Mode 7 graphics, which allowed a world to be rotated around the player. Thing is, it was so much fun it created a franchise all of its own, and is still one of the greatest multiplayer games ever created. These days, just about every successful cartoon character gets his own kart game eventually, but Mario got there first.

The next Mario game which had a huge impact on everything that came after it was the incredible Super Mario 64. Boasting the first ever truly-realised 3D world, the game set the standards for third-person gaming that still hold today. Perhaps more subtly but no less significantly. The N64's controller was designed around the game, and offered the first use of an analogue stick in a platform adventure. If you pressed the stick slightly forwards. Mario tip-toed. A little further and he walked. Press it all the way and he ran. It seems a little obvious now, but in 1996, it was a groundbreaking concept. The gameplay was also groundbreaking, and proved a platform adventure could be broken up with other game styles, without being disjointed. Alas, like Super Mario World before it, Super Mario 64 also created unrealistic expectations of what could be done with the new machine

Unfortunately, and disappointingly, the Mario games on the GameCube have displayed little of the originality and shine of his previous games. Mario Golf: Toadstool Tour and Mario Party 4 were simply updates of earlier outings, and Super Mario Sunshine introduced some significant novelties, but was nothing like as groundbreaking as Mario 64. Mario Kart: Double Dash!! tried its best by putting two characters on each kart and letting you switch between them during the race, but all this did in the gameplay department was to allow you to hold two weapons at once, which you could do on the SNES by holding the 'fire' button without releasing it. Nintendo also abandoned the practice they pioneered



THE N64 BOASTED SUPER MARIO 64, ONE OF THE MOST INFLUENTIAL GAMES EVER.

when they failed to bundle a Mario game with the Cube, which is now seen as a major cause of the console's struggling to keep up with its competitors. Sales of the Cube certainly skyrocketed when it was eventually bundled with Double Dash!!

Mario isn't going through a bad patch, but his recent games have been less of an influence than one would expect. Still, with Mario 128 in the pipeline, perhaps that's set to change...



Manio's Game Boy outings have not been as influential as his games on the main consoles. Super Mario Land on the original Game Boy was a brilliant game, but scored few firsts given what had already appeared on the NES, and his Game Boy Advance games to date have been ported from older Mario games.

All that could change with Mario and Luigi. A GBA-exclusive RPG starning the Mario brothers, Nintendo promises 'a unique simultaneous-control set-

All that could change with Mario and Luigi. A GBA-exclusive RPG starning Luigi. A GBA-exclusive RPG starning the Mario brothers. Nintendo promises a unique simultaneous-control setup that lets you control each brother separately or team up for super moves. So will it make any advances over the US-only SNES game Super Mario RPG? We'll find out this Christmas...

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CPU, Heatsink & Fan	12.00 0+ 39.99	ATX Desktop 300 Watt Case. ATX Full Tower 300 Watt Case. ATX Server Case 500 Watt. Network/ADSL 10/100 PCI Realtek Network Card.	£32.99 £39.99 £69.99 Inc VAT	Single DVD Cases Single CD Jewel Case	14p 16p nc VAT £39.99
CPU, Heatsink & Fan	12.00 0+ 39.99 CPU,	ATX Desktop 300 Watt Case ATX Full Tower 300 Watt Case ATX Server Case 500 Watt Network/ADSL 10/100 PCI Realtek Network Card 2 Metre Network Patch Cable	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25	Single DVD Cases. Single CD Jewel Caise. TV-DVD-Video Avermedia TV Tuner Card Avermedia CD/DVD Capture Card Avermedia Digital Free to Air & Terr	14p nc VAT £39.99 £38.99 estrial
CPU, Heatsink & Fan	12.00 0+ 39.99 CPU,	ATX Desktop 300 Watt Case. ATX Full Tower 300 Watt Case. ATX Server Case 500 Watt. Network/ADSL 10/100 PCI Realtek Network Card 2 Metre Network Patch Cable 2 Metre Network Crossover Cable	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25	Single DVD Cases. Single CD Jewel Case TV-DVD-Video Avermedia TV Tuner Card Avermedia CD/DVD Capture Card Avermedia Digital Free to Air & Terr TV Tuner Card	14p nc VAT £39.99 £38.99 estrial £74.99
CPU, Heatsink & Fan	12.00 0+ 39.99 CPU, 294.00	ATX Desktop 300 Watt Case. ATX Full Tower 300 Watt Case. ATX Server Case 500 Watt. Networt/ADSL 10/100 PCI Realtek Network Card 2 Metre Network Patch Cable 2 Metre Network Crossover Cable 5 Port 10/100 N/Way Network Switch.	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25 £1.25 £13.99	Single DVD Cases. Single CD Jewel Case. TV-DVD-Video Avermedia TV Tuner Card Avermedia DD/DVD Capture Card Avermedia Digital Free to Air & Terr TV Tuner Card Avermedia Statilite Free to Air TV &	14p nc VAT £39.99 £38.99 estrial £74.99 Radio
CPU, Heatsink & Fan. ATX Socket A DDR MB with Athlon XP300 CPU, Heatsink & Fan. Special Offer ECS Socket A SDR MB with XP2400+ Heatsink & Fan. THE Platinix P4 M/B with P4 2 Gig Cele 512 Rambus Memory, 1 AGP, 5 PCI, So	12.00 0+ 39.99 CPU, 294.00	ATX Deskop 300 Watt Case. ATX Full Tower 300 Watt Case. ATX Server Case 500 Watt. Notwork/ADSL 10/100 PCI Fealtlek Network Card 2 Metre Network Patch Cable 2 Metre Network Crossover Cable 5 Port 10/100 NWay Network Switch. 5 Port 10/100 NWay Network Switch. 8 Port 10/100 NWay Network Switch.	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25 £1.25 £13.99 £15.99	Single DVD Cases. Single CD Jewel Case TV-DVD-Video Avermedia TV Tuner Card Avermedia CD/DVD Capture Card Avermedia Digital Free to Air & Terr TV Tuner Card	14p nc VAT £39.99 £38.99 estrial £74.99 Radio
CPU, Heatsink & Fan	12.00 0+ 39.99 CPU, 294.00	ATX Desktop 300 Watt Case. ATX Full Tower 300 Watt Case. ATX Server Case 500 Watt. Networt/ADSL 2 Metre Network Patch Cable 2 Metre Network Patch Cable 2 Metre Network Crossover Cable 5 Port 10/100 N/Way Network Switch. 8 Port 10/100 N/Way Network Switch. ADSL Filters.	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25 £1.25 £13.99 £15.99 £2.98	Single DVD Cases Single CD Jewel Cise. TV-DVD-Video Avermedia TV Tuner Card Avermedia CD/DVD Capture Card Avermedia Digital Free to Air & Terr TV Tuner Card Avermedia Statilite Free to Air TV & Tuner Card.	14p nc VAT £39.99 £38.99 estrial £74.99 Radio £74.99
CPU, Heetsink & Fan	12.00 0+ 39.99 CPU, 294.00 eron, und 18.00	ATX Desistop 300 Wat Case. ATX Full Town Wat Case. ATX Sarver Case 500 Watt Metwork/ADSL 10/100 PCI Reallek Network Card 2 Metre Network Patch Cable 2 Metre Network Crossover Cable 5 Port 10/100 NWay Network Switch ADSL Pci Hiers ADSL Pci Hiers ADSL Pci Modem	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25 £1.25 £13.99 £15.99 £2.98 £25.99	Sngle DVD Cases Sngle CD Jewel Cisie. TV-DVD-Video Avermedia TV Tuner Card Avermedia CD/DVD Capture Card Avermedia Digital Free to Air & Terr TV Tuner Card. Avermedia Stalitle Free to Air TV & Tuner Card Special Offers	14p nc VAT £39.99 £38.99 estrial £74.99 Radio £74.99 nc VAT
CPU, Heatsink & Fan. 171 ATX Scoket A DON MB with Althion XP300 CPU, Heatsink & Fan. 181 ECS Special Offer ECS Socket A SDR MB with XP2400+ Heatsink & Fan	12.00 0+ 39.99 CPU, 294.00 eron, und 18.00	ATX Desktop 300 Watt Case. ATX Full Tower 300 Watt Case. ATX Server Case 500 Watt. Networt/ADSL 2 Metre Network Patch Cable 2 Metre Network Patch Cable 2 Metre Network Crossover Cable 5 Port 10/100 N/Way Network Switch. 8 Port 10/100 N/Way Network Switch. ADSL Filters.	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25 £1.25 £15.99 £15.99 £25.99	Sngle DVD Cases Sngle CD Jewel Cisies TV-DVD-Video Avermedia TV Tuner Card Avermedia Dipital Free to Air & Terr TV Tuner Card Avermedia Stallite Free to Air TV & Tuner Card Special Offers New Mini Desktop Case M/B with	14p nc VAT £39.99 £38.99 estrial .£74.99 Radio £74.99 nc VAT
CPU, Heatsink & Fan. ATX Socket A DON RM with Athion XP300 CPU, Heatsink & Fan. C18 CSS Socket A SDR M/B with XP2400+ Relatatink & Fan. Relatatink & Relatatink	12.00 0+ 19.99 CPU, 194.00 18.00 5 PCI, 1259.99	ATX Desktop 300 Met Case. ATX Full Town 900 Wett Case. ATX Full Town 900 Wett Case. ATX Sarver Case 500 Wett Betwork/ADSL 10/100 PCI Featlet Network Card. 2 Metro Network Patch Cable. 2 Metro Network Patch Cable. 3 Port 10/100 NW/ay Network Switch. 8 Port 10/100 NW/ay Network Switch. 8 Port 10/100 NW/ay Network Switch. 8 DSL Fillers ADSL Fillers ADSL PCI Modern. ADSL Modern with 4 Port switch. ADSL/Broadband Firewall Router. MSP Modern With Port Switch. ADSL/Broadband Firewall Router.	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25 £1.25 £13.99 £2.98 £25.99 £25.99 £29.99	Sngle DVD Cases Sngle CD Jewel Case TV-DVD-Video Avermedia TV Tuner Card Avermedia CD/DVD Capture Card Avermedia Digital Free to Air & Terr TV Tuner Card. Avermedia Stalitle Free to Air TV & Tuner Card. Special Offers New Mini Desktop Case M/B with PPGA CPU, Floppy drive, Onboart	14p nc VAT£39.99£38.99 estrial£74.99 Radio£74.99 nc VAT 466MHz I Video
CPU, Heatsink & Fan. 174 Socket A DON MB with Athion XP000 CPU, Heatsink & Fan. 218 Special Offer PECS Socket A SOR MB with XP2400+featsink & Fan. 5. 18 Special Offer PECS Socket A SOR MB with XP2400+featsink & Fan. 5. 18 Special XP2	12.00 0+ 39.99 CPU, 294.00 eron, und 18.00 5 PCI, 259.99	ATX Desixtop 300 Watt Case. ATX Full Tower 9300 Watt Case. ATX Sarver Case 500 Watt Mctwort/ADSL 10/100 PCI Fleatlet Network Card. 2 Metre Network Orossower Cable. 2 Metre Network Crossower Cable. 5 Port 10/100 NWay Network Switch. ADSL Filters ADSL PCI Modem ADSL Modem with 4 Port switch. ADSL Frid Modem Frewalt Router. ADSL McGand Firewalt Router.	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25 £1.25 £13.99 £2.98 £25.99 £25.99 £29.99	Single DVD Cases Single CD Jewel Cisie TV-DVD-Video Avermedia TV Tuner Card. Avermedia Dipliat Free to Air & Terr TV Tuner Card. Avermedia Sigliat Free to Air TV & Tuner Card. Special Offers INew Mini Desktop Case M/B with PPGA CPU. Fioppy drive. Onboard & Sound. USB. Lan.	14p 16p nc VAT
CPU, Heatsink & Fan. 171 ATX Scoket A DON MB with Althon XP300 CPU, Heatsink & Fan. 171 ECS Socket A SDN MB with XP2400+ Heatsink & Fan	12.00 0+ 39.99 CPU, 294.00 eron, und 18.00 5 PCI, 259.99 VAT	ATX Desktop 300 Met Case. ATX Full Town 900 Wett Case. ATX Full Town 900 Wett Case. ATX Sarver Case 500 Wett Betwork/ADSL 10/100 PCI Featlet Network Card. 2 Metro Network Patch Cable. 2 Metro Network Patch Cable. 3 Port 10/100 NW/ay Network Switch. 8 Port 10/100 NW/ay Network Switch. 8 Port 10/100 NW/ay Network Switch. 8 DSL Fillers ADSL Fillers ADSL PCI Modern. ADSL Modern with 4 Port switch. ADSL/Broadband Firewall Router. MSP Modern With Port Switch. ADSL/Broadband Firewall Router.	\$\begin{align*} \text{C32.99} & \text{C39.99} & \text{C39.99} & \text{E69.99} \end{align*} \text{Inc VAT} & \text{C5.99} & \text{C1.25} & \text{C1.25} & \text{C13.99} & \text{C2.98} & \text{C25.99} & \text{C25.99} & \text{C25.99} & \text{C25.99} & \text{C25.99} & \text{C22.99} & \text{C22.99}	Sngle DVD Cases. Sngle CD Jewel Cide TV-DVD-Video Avermedia TV Tuner Card. Avermedia Digital Free to Air & Terr Y Tuner Card. Avermedia Digital Free to Air & Terr Y Tuner Card. Avermedia Stalite Free to Air Y & Tuner Card. Special Offers New Mini Desktop Case M/B with PPGA CPU, Floppy drive, Onboars & Sound, USB, Lland. 2.1 Gig H/Drives as New Pulled.	
CPU, Heatsink & Fan. 171 Socket A DOS MB with Athion XP000 CPU, Heatsink & Fan. 182 Special Offer Peatsink & Fan. 183 Special Offer Peatsink & Peats	12.00 0+ 89.99 CPU, 294.00 Fron, und 18.00 5 PCI, 259.99 VAT	ATX Desixbop 300 Watt Case. ATX Full Tower 300 Watt Case. ATX Sarver Case 500 Watt Network/ADS. 10/100 PCI Realtek Network Card. 2 Metre Network Crossover Cable. 5 Port 10/100 NWay Network Switch. ADSL Filters ADSL Port 10/100 NWay Network Switch. ADSL Filters ADSL Port Modern Watter Switch. ADSL Filters ADSL Production Filters ADSL Word May Network Switch. ADSL Watter Switch. ADSL W		Single DVD Cases. Single CD Jewel Cisie. TV-DVD-Video Avermedia TV Tuner Card. Avermedia Diplati Free to Air Are Tre TV Tuner Card. Avermedia Stallist Free to Air TV & Tuner Card. Special Offers New Mini Desktop Case M/B with PPGA CPU. Pioppy drive. Onboard & Sound. USB. Lan. 2.1 Gig H/Drives as New Pulled. 2.2 Gig H/Drives as New Pulled.	
CPU, Heatsink & Fan. 171 ATX Scoket A DON MB with Althon XP300 CPU, Heatsink & Fan. 171 ECS Socket A SDN MB with XP2400+ Heatsink & Fan	12.00 0+ 89.99 CPU, 294.00 Fron, und 18.00 5 PCI, 259.99 VAT	ATX Deskop 300 Watt Case. ATX Full Town Watt Case. ATX Full Town Watt Case. ATX Sarver Case 500 Watt Retwork/ADSL 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable 2 Metre Network Patch Cable 2 Metre Network Patch Cable 5 Port 10/100 NWay Network Switch. 8 Post 10/100 NWay Network Switch. 8 Post 10/100 NWay Network Switch. 8 ADSL Filters ADSL Filters ADSL PICI Modern ADSL Modern with 4 Port switch. 8 ADSL Modern with 4 Port switch. 8 ADSL Workers Stantant May Pick Modern Watter 11 Mbgs PC Wickies Lan. 11 Mbgs PC Wickies Lan. 11 Mcgscllimosous Inc. 12 PS/2 Reyboard. 12 Wireless Optical ReCharge Mouse.	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25 £1.25 £1.29 £2.98 £2.99 £22.99 £22.99 £22.99 £22.99 £23.99 £24.99	Sngle DVD Cases. Sngle CD Jewel Cide. TV-DVD-Video Avermedia TV Tuner Card. Avermedia Digital Free to Air & Terr Y Tuner Card. Avermedia Digital Free to Air & Terr Y Tuner Card. Avermedia Stalite Free to Air Y & Tuner Card. New Mini Desktop Case M/B with PPGA CPU, Floppy drive, Onboars & Sound, USB, Lam. 2.1 Gig H/Drives as New Pulled. 3.2 Gig H/Drives as New Pulled.	14p16p nc VAT
CPU, Heatsink & Fan. 171 Socket A DOS MB with Athion XP000 CPU, Heatsink & Fan. 182 Special Offer Peatsink & Fan. 183 Special Offer Peatsink & Peats	12.00 0+ 39.99 CPU, 294.00 Fron, und 18.00 5 PCI, 259.99 VAT	ATX Desixtop 300 Watt Case. ATX Full Town 9300 Watt Case. ATX Sarver Case 500 Watt Case. ATX Sarver Case 500 Watt Network Card. 10/100 PCI Realtek Network Card. 2 Metre Network Crossover Cable. 5 Port 10/100 NWay Network Switch. ADSL Pill And Port Switch. ADSL Pill Modern with 4 Port switch. ADSL Modern With 4 Port switch. ADSL Modern With 4 Port switch. ADSL Modern Fill With 4		Single DVD Cases. Single CD Jewel Cisiae TV-DVD-Video Avermedia TV Tuner Card. Avermedia Digital Free to Air & Ter TV Tuner Card. Avermedia Sigliati Free to Air & Ter TV Tuner Card. Special Offers New Mini Desktop Case M/B with PPGA CPU, Floppy drive, Onboard & Sound, USB, Lan. 2.1 Gig H/Drives as New Pulled. 3.2 Gig H/Drives as New Pulled. 4.3 Gig H/Drives as New Pulled.	
CPU, Heatsink & Fan	12.00 0+ 19.99 CPU, 194.00 18.00 5 PCI, 159.99 VAT DDR 1CI, 19.99 FSB,	ATX Deskop 300 Watt Case. ATX Full Tower 900 Watt Case. ATX Full Tower 900 Watt Case. ATX Sarver Case 500 Watt [Vetwork/ADSL] 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable 2 Metre Network Patch Cable 2 Metre Network Patch Cable 5 Port 10/100 NWay Network Switch. 8 Port 10/100 MWay Network Switch. 8 ADSL Filters ADSL FICH Modern ADSL Micror With 4 Port switch. 8 ADSL Micror With 1 Port Switch. 9 ADSL Micror With 1 Port Switc		Sngle DVD Cases. Sngle CD Jewel Cide TV-DVD-Video Avermedia TV Tuner Card. Avermedia Digital Free to Air & Terr Y Tuner Card. Avermedia Digital Free to Air & Terr Y Tuner Card. Avermedia Stalite Free to Air Y & Tuner Card. Avermedia Stalite Free to Air Y & Tuner Card. Avermedia Stalite Free to Air Y & Tuner Card. Avermedia Stalite Free to Air Y & Tuner Card. Avermedia Stalite Free to Air Y & Tuner Card. Avermedia Stalite Free to Air Y & Tuner Card. Avermedia Stalite Free to Air Y & Tuner Card. Avermedia Stalite Avermedia Stalit	
CPU, Hestsink & Fan	12.00 0+ 19.99 CPU, 194.00 18.00 5 PCI, 259.99 VAT DDR PCI, 19.99 PSB, 19.99	ATX Desikop 300 Met Case. ATX Full Tower Watt Case. ATX Full Tower Watt Case. ATX Surver Case 500 Watt Metwork/ADS. 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 3 Metre Network Crossover Cable. 3 Port 10/100 NWay Network Switch. 4 Port 10/100 NWay Network Switch. 4 Post 10/100 NWay Network Switch. 5 POST 10/100 NWay Network Switch. 6 POST 10/100 NWay Network Switch. 7 POST 10/100 NWay Network Switch. 7 POST 10/100 NWay Network		Single DVD Cases. Single CD Jewel Cisiae TV-DVD-Video Avermedia CD/DVD Capture Card. Avermedia Digital Free to Air X Terr TV Tuner Card. Avermedia Sigliati Free to Air X Terr TV Tuner Card. Special Ofters New Mini Deaktop Case M/B with. PPGA CPU, Pioppy drive, Onboarn & Sound, USB, Lan. 2.1 Gig H/Drives as New Pulled. 4.3 Gig H/Drives as New Pulled. 4.3 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled.	
CPU, Hesishirk & Fan. ATX Socket A DON IMB with Athion XP300 CPU, Hesishirk & Fan. Special Offer ECS Socket A SDR M/B with XP2400+ ECS Socket A SDR M/B with XP2400+ Ecs Socket A SDR M/B with XP2400+ Ecs Socket A SDR M/B with XP24 Gig Cele 1/2 Rambus Memory, 1 AGP, 5 PCI, Soc teatinis & Fan. ECS M/B +1400 Duron, Sound, Lan 1 AGP, 2 Durin, 4 USB, H95 Fan. Molitor-board SW Socket A, 333MHz FSB, SM Memory, 8x AGP, 5.1 Sound, USB2, 6; 2 Aerock YES Pro Intel P4 M/B, 533MHz ES SDR/DDR, 6 PCI, 5.1 Sound. SOUR ASSESS SOURCE A, 2033MHz FSB, SI	12.00 0+ 19.99 CPU, 294.00 18.00 5 PCI, 259.99 VATI DDR CI, 19.99 FSB, 39.99 DR,	ATX Deskop 300 Met Case. ATX Full Town 900 Wet Case. ATX Full Town 900 Wet Case. ATX Sarver Case 500 Wet 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 5 Port 10/100 NWay Network Switch. 8 DSL Filters ADSL FICH Modern. ADSL Micror With 4 Port switch. 8 ADSL Micror With 1 Port Switch. 8 ADSL MICROR WIT		Single DVD Cases. Single CD Jewel Cise. TV-DVD-Video Avermedia TV Tuner Card Avermedia TV Tuner Card Avermedia CD/DVD Capture Card Avermedia Clipital Free to Air & Terr TV Tuner Card Avermedia Statilite Free to Air TV & Tuner Card Special Ofters New Mini Desktipp Case M/B with. PPGA CPU Lipopy drive. Onboara & Sound. USB. Lan 2.1 Gig H/Drives as New Pulled 4.3 Gig H/Drives as New Pulled 4.4 Gig H/Drives As New Pulled 4.6 Gig H/Drives As New Pulled 4.6 Gig H/Drives As New Pulled 4.7 Gig H/Drives As New Pulled 4.8 Gig H/Drives As New Pulled 4.9 Gig H/Drives As New Pulled 4.9 Gig H/Drives As New Pulled 4.0 Gig H/Drives As New Pulled 4.1 Gig H/Drives As New Pulled 4.2 Mig Alf Nadoon AGP TV Out	
CPU, Heatsink & Fan. ATX Socket A DON IM9 with Athion XP300 CPU, Heatsink & Fan. C18 CPU, Heatsink & Fan. C18 CPS Special Offer ECS Socket A SDR M/B with XP24000- Heatsink & Fan. AND Special Offer CPS MPS H400 Duron, Sound, Lan, 1 AGP, 2 CPS MPS H400 Duron, Sound, Lan, 1 AGP, 2 CPS MPS H400 Duron, Sound, Lan, 1 AGP, 2 CPS MPS H400 Duron, Special CPS Special Offer CPS MPS H400 Duron, Special CPS Special Offer CPS MPS H400 Duron, Special CPS	12.00 0+ 19.99 CPU, 294.00 18.00 5 PCI, 259.99 VAT DDR CI, 19.99 FSB, 39.99 DR, 25.99	ATX Desikop 300 Met Case. ATX Full Tower 900 Wet Case. ATX Full Tower 900 Wet Case. ATX Server Case 500 Wet. 10/100 PCI Realtek Network Card. Wetwork/ADS. 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable. 2 Metre Network Crossover Cable. 2 Metre Network Crossover Cable. 3 Port 10/100 NWay Network Switch. 4 Port 10/100 NWay Network Switch. 4 POST 10/100 NWay Network Switch. 4 DSL Filters. 4 DSL Filters. 4 DSL Filters. 4 DSL Modern with 4 Port switch. 4 DSL Modern with 4 Port swit		Single DVD Cases. Single CD Jewel Cisiae TV-DVD-Video Avermedia CD/DVD Capture Card. Avermedia Digital Free to Air X Terr TV Tuner Card. Avermedia Sigliati Free to Air X Terr TV Tuner Card. Special Ofters New Mini Deaktop Case M/B with. PPGA CPU, Pioppy drive, Onboarn & Sound, USB, Lan. 2.1 Gig H/Drives as New Pulled. 4.3 Gig H/Drives as New Pulled. 4.3 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled.	
CPU, Heatsink & Fan	12.00 0+ 39.99 CPU, 39.4.00 18.00 5 PCI, 259.99 VAT DDR CCI, 99.99 FSB, 39.99 DR, 25.99 B, 8x	ATX Deskop 300 Met Case. ATX Full Town 900 Wet Case. ATX Full Town 900 Wet Case. ATX Sarver Case 500 Wet 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 3 Port 10/100 NWay Network Switch. 8 Port 10/100 NWay Network Switch. 8 Port 10/100 NWay Network Switch. 8 DSL Filters. ADSL PCI Modem. ADSL Modem with 4 Port switch. ADSL Modern With 4 Por		Single DVD Cases. Single CD Jewel Cise. TV-DVD-Video Avermedia TV Tuner Card Avermedia TV Tuner Card Avermedia CD/DVD Capture Card Avermedia Clipital Free to Air & Terr TV Tuner Card Avermedia Statilite Free to Air TV & Tuner Card Special Ofters New Mini Desktipp Case M/B with. PPGA CPU Lipopy drive. Onboara & Sound. USB. Lan 2.1 Gig H/Drives as New Pulled 4.3 Gig H/Drives as New Pulled 4.4 Gig H/Drives As New Pulled 4.6 Gig H/Drives As New Pulled 4.6 Gig H/Drives As New Pulled 4.7 Gig H/Drives As New Pulled 4.8 Gig H/Drives As New Pulled 4.9 Gig H/Drives As New Pulled 4.9 Gig H/Drives As New Pulled 4.0 Gig H/Drives As New Pulled 4.1 Gig H/Drives As New Pulled 4.2 Mig Alf Nadoon AGP TV Out	14p
CPU, Heatsink & Fan. ATX Socket A DON IM9 with Athion XP300 CPU, Heatsink & Fan. C18 CPU, Heatsink & Fan. C18 CPS Special Offer ECS Socket A SDR M/B with XP24000- Heatsink & Fan. AND Special Offer CPS MPS H400 Duron, Sound, Lan, 1 AGP, 2 CPS MPS H400 Duron, Sound, Lan, 1 AGP, 2 CPS MPS H400 Duron, Sound, Lan, 1 AGP, 2 CPS MPS H400 Duron, Special CPS Special Offer CPS MPS H400 Duron, Special CPS Special Offer CPS MPS H400 Duron, Special CPS	12.00 0+ 39.99 CPU, 39.4.00 18.00 5 PCI, 259.99 VAT DDR CCI, 99.99 FSB, 39.99 DR, 25.99 B, 8x	ATX Desixlop 300 Met Case. ATX Full Town Year Case. ATX Full Town Year Case. ATX Sarver Case 500 Watt. Metwork/ADS. 10/100 PCI Realtek Network Card. Metwork/ADS. 10/100 PCI Realtek Network Card. 2 Metro Network Patch Cable. 2 Metro Network Patch Cable. 2 Metro Network Crossover Cable. 3 Port 10/100 NWay Network Switch. 4 Port 10/100 NWay Network Switch. 4 POST 10/100 NWay Network Switch. 4 DSL Filters. 4 DSL Filters. 4 DSL Filters. 4 DSL Filters. 4 DSL Metwork Switch. 4 DSL Metwo	£32.99 £39.99 £69.99 Inc VAT £5.99 £1.25 £1.25 £1.39 £25.99 £25.99 £29.99 £22.99 £22.99 £24.99 £24.99 £25.99 £22.99 £24.99 £3.99 £3.99 £3.99 £3.99 £3.99 £3.99 £3.99 £3.99 £3.99	Single DVD Cases. Single CD Jewel Cisiae TV-DVD-Video Avermedia TV Tuner Card. Avermedia Digital Free to Air X Terr TV Tuner Card. Avermedia Sigliati Free to Air X Terr TV Tuner Card. Special College Special College New Minl Desktop Case M/B with PPGA CPU, Floppy drive, Onboard & Sound, USB, Lan. 2.1 Gig H/Drives as New Pulled. 4.3 Gig H/Drives as New Pulled. 4.3 Gig H/Drives As New Pulled. 6.4 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled. 14 Gig H/Drives As New Pulled. 16 Gig H/Drives As New Pulled. 17 Gig H/Drives As New Pulled. 18 Gig H/Drives As New Pulled. 19 Gig H/Drives As New Pulled. 19 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled. 11 Gig H/Drives As New Pulled. 12 Mig ATI Radeon Ado T/V Out. 14 Mig ATI Radeon Ado T/V Out. 15 Mig ATI Radeon Ado T/V Out. 16 Mig ATI Radeon Robo Affort Not. 16 Mig ATI Radeon Robo Affort Not. 18 Speed CD Rom Black front.	14p
CPU, Healsink & Fan. ATX Socket A DON IM9 with Athion XP300 CPU, Healsink & Fan. C18 Special Offer ECS Socket A SDR M/B with XP2400+ Retastink & Fan. C18 Special Offer Healsink & Fan. C18 Special Offer ECS Socket A SDR M/B with XP2400+ GES Socket A SDR M/B with XP2400+ GES M/B STR With XP2400+ GES M/B 1400 Duron, Sound, Lan 1 AGP, 8 COMMINION STR SOCKET AS ASSIME FEB. ASPOCK NTSBK Socket A, 333MHz FSB. Memory, 8x AGP, 5.1 Sound, USB2, 8-2 ASTOCK PEP Fro Intel P4 M/B, 533MHz FSB. ASPOCK PEP Fro Intel P4 M/B, 533MHz FSB. DR, 5 PCI, Sound 4 USB2 — ESS Gigbyte GA-7/17600 1304, 333MHz FSB. AGP, LAM, Radio, ATA133 SATA	12:00 04:39:99 CPU, 694:00 eron, und 18:00 DDR (CI, 19:9:99 FSB, 39:99 DR, 55:99 DR, 55:99	ATX Deskop 300 Met Case. ATX Full Town 900 Wet Case. ATX Full Town 900 Wet Case. ATX Sarver Case 500 Wet. Betwork/ADSL. 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 3 Port 10/100 NW/ay Network Switch. 8 Port 10/100 NW/ay Network Switch. 8 Port 10/100 NW/ay Network Switch. 8 DSL Filters. ADSL PCI Modern. ADSL Modern with 4 Port switch. ADSL/Broadband Firevall Router. 11 Mbps PCMCIA Wireless Lan. Mitscellancous. Interest Cable	C32 99 C32 99 C39 99 F69 99 Inc VAT E5 99 £1.25 £1.25 £1.25 £1.25 £2.99 £2.98 £2.99 £22.99 £22.99 £24.99 £14.99 £.64.99 £1.99 £1.99 £1.99 £1.99 £21.99	Single DVD Cases. Single CD Jewel Cise. TV-DVD-Video Avermedia TV Tuner Card. Avermedia TV Tuner Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Special Officer Inter Card. Special Officer New Mini Desktop Case M/B with PPGA CPU Lipopy drive, Onboart & Sound, USB, Lan. 2.1 Gig H/Drives as New Pulled. 3.2 Gig H/Drives as New Pulled. 4.5 d Gig H/Drives As New Pulled. 4.6 d Gig H/Drives As New Pulled. 4.6 d Gig H/Drives As New Pulled. 4.7 Gig H/Drives As New Pulled. 4.8 Gig H/Drives As New Pulled. 4.9 Gig H/Drives As New Pulled. 4.0 Gig H/Drives As New Pulled. 4.0 Gig H/Drives As	
CPU, Hestsink & Fan	12:00 0+ 199.99 CPU, 1994.00 Pron, und 18:00 5 PCI, 19:59.99 VAT DDR CCI, 19:99.99 PSB, 19:99.99 BB, 8x 771.99 IB, 8x 771.99	ATX Desixlop 300 Met Case. ATX Full Town Wat Case. ATX Full Town Wat Case. ATX Sarver Case 500 Watt. Metwork/ADS. 10/100 PCI Realtek Network Card. Metwork/ADS. 10/100 PCI Realtek Network Cadd. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 2 Metre Network Crossover Cable. 3 Port 10/100 NWay Network Switch. 3 PORT 10/10		Single DVD Cases. Single CD Jewel Cisiae. TV-DVD-Video Avermedia TV Tuner Card. Avermedia Digital Free to Air & Terr TV Tuner Card. Avermedia Digital Free to Air & Terr TV Tuner Card. Special Offers New Mini Desktop Case M/B with PPGA CPU. Pioppy drive. Onboars & Sound. USB. Lan. 2.1 Gig H/Drives as New Pulled. 4.3 Gig H/Drives as New Pulled. 4.3 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled. 10 Gig H/Drives As New Pulled. 14 Gig H/Drives As New Pulled. 15 Mini Mini Mini Mini Mini Mini Mini Min	
CPU, Heatsink & Fan. 171 Socket A DOR M9 with Athion XP000 CPU, Heatsink & Fan. 182 Special Offer EGS Socket A SDR M/8 with XP2400+ Heatsink & Fan. 182 Special Offer Heatsink & Fan. 182 Special Offer EGS Socket A SDR M/8 with XP2400+ Heatsink & Fan. 182 Special Offer Heatsink & Fan. 183 Special Offer Heatsink &	12:00 0+ 199.99 CPU, 1994.00 Pron, und 18:00 5 PCI, 19:59.99 VAT DDR CCI, 19:99.99 PSB, 19:99.99 BB, 8x 771.99 IB, 8x 771.99	ATX Deskop 300 Met Case. ATX Full Tower 900 Wet Case. ATX Full Tower 900 Wet Case. ATX Sarver Case 500 Wet 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable 2 Metre Network Patch Cable 2 Metre Network Patch Cable 2 Metre Network Crossover Cable. 2 Metre Network Crossover Cable. 5 Port 10/100 NWay Network Switch. 8 Port 10/100 NWay Network Switch. 8 Port 10/100 NWay Network Switch. 8 DSL Filters ADSL FICH Modern ADSL Micror With 4 Port switch. 8 ADSL ROMER With 4 Port switch. 8 ADSL Micror With 4 Port switch. 8 ADSL Micror With 4 Port switch. 8 ADSL Micror With 6 Port Switch. 8 ADSL Micror With 6 Port Switch. 8 ADSL Micror With 6 Port Switch. 8 Micror With 6 Port With 6 Micror With 6 Port View. 8 ATA 133 Round IDE Cables. 9 Way Auto KVM Switch with Cable. 9 Way Auto KVM Switch with Cable. 9 MICROR PORT PORT PORT PORT PORT PORT PORT P		Single DVD Cases. Single CD Jewel Cise. TV-DVD-Video Avermedia TV Tuner Card. Avermedia TV Tuner Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Special Ofters Inter Card. Special Ofter Ofter Inter Card. Special Ofter Ofter Inter Card. Special Ofter In	14p
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CPU, Hestsink & Fan	12:00 0+ 19:99 10:	ATX Desktop 300 Met Case. ATX Full Tower Wat Case. ATX Full Tower Wat Case. ATX Surver Case 500 Watt. Metwork/ADS. 10/100 PCI Realtek Network Card. 2 Metro Network Patch Cable. 2 Metro Network Patch Cable. 2 Metro Network Crossover Cable. 2 Metro Network Crossover Cable. 3 Port 10/100 NWay Network Switch. 3 Port 10/100 NWay Netwo	CR2999 Inc VAT CR3999 CR399	Single DVD Cases. Single CD Jewel Cisies TV-DVD-Video Avermedia CD/DVD Capture Card. Avermedia Digital Free to Air X Terr TV Tuner Card. Avermedia Signital Free to Air X Terr TV Tuner Card. Special College Special College Institute Card.	140 160 160 160 160 160 160 160 160 160 16
CPU, Heatsink & Fan. ATX Socket A DON MB with Athion XP300 CPU, Heatsink & Fan. C18 Special Offer ECS Socket A SDR M/B with XP2400- ECS Socket A SDR M/B with XP2400- ELST Socket A SDR M/B with XP2400- Entel Platinix P4 M/B with P4 2 Gig Cele 12 Rambus Memory, 1 AGP, 5 PCI, Soc Heatsink & Fan. ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Sound, Lan 1 AGP, 2 ECS MB +1400 Duron, Lan 1 AGP, 2 ECS MB	12:00 0+ 19:99 10:00 10:	ATX Desktop 300 Met Case. ATX Full Tower 900 Wet Case. ATX Full Tower 900 Wet Case. ATX Sarver Case 500 Wet Electron 100 PCI Realtek Network Card. 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable. 2 Metre Network Patch Cable. 5 Port 10/100 NWay Network Switch. 8 DSL Filters. ADSL PCI Modern. ADSL Micror With 4 Port switch. ADSL Micror With 6 Port Switch. ATA 133 Round IDE Cables. 2 Way Auto KVM Switch with Cables. USB 11 Blustooth Dorgic Adapter. USB Cable Ato 15 Metre. USB Cable Ato 15 Metre. USB 10/18 Port PCI Card. USB 10/18 POR PCI Card.	CR2999 Inc VAT	Single DVD Cases. Single CD Jewel Cise. TV-DVD-Video Avermedia TV Tuner Card. Avermedia TV Tuner Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Single CD Cases M/B with Card Card. New Minl Desktop Case M/B with PPGA CPU. Floopy drive. Onboard & Sound. USB, Lan. 2.1 Gig H/Drives as New Pulled. 4.3 Gig H/Drives as New Pulled. 4.3 Gig H/Drives as New Pulled. 4.4 Gig H/Drives as New Pulled. 4.5 Gig H/Drives as New Pulled. 4.6 Gig H/Drives As New Pulled. 4.7 Gig H/Drives As New Pulled. 4.8 Gig H/Drives As New Pulled. 4.9 Gig H/Drives As New Pulled. 5. Gig H/Drives As New Pulled. 5. Gig H/Drives As New Pulled. 6.	140 160 160 160 160 160 160 160 160 160 16
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CPU, Hesishink & Fam. ATX Socket A DON IMB with Athinn XP300 CPU, Hesishink & Fam. Special Offer ECS Socket A SDR MIR with XP400P ECS Socket A SDR MIR with XP420P ECS Socket A SDR MIR with XP420P ECS Socket A SDR MIR with XP420P ECS SWR STREAM SOCKET A	12:00 0+ 09:99 CPU, 19:4:00 ron, 18:00 15:59:99 VAT DDR 16:59:99 17:59:99 18: 8x 17:59:99 18: 8x 18: 8x 18: 9x	ATX Desikop 300 Met Case. ATX Full Tower Wat Case. ATX Full Tower Wat Case. ATX Surver Case 500 Watt Metwork/ADSL 10/100 PCI Realtek Network Card. 2 Metre Network Patch Cable 2 Metre Network Patch Cable 2 Metre Network Patch Cable 2 Metre Network Crossover Cable. 5 Port 10/100 NWay Network Switch. 8 NSL Fill Medical Network Switch. 8 NSL Microsite Switch Network Switch. 8 NSL Network Switch. 8 Network Switch Watch Switch. 8 Network Switch with Cable. 9 Way Atto KVM Switch with Cable. 10 NS Devices. 10 Not 10/100 N	E2299 Inc VAT E2599 E2299 E229	Single DVD Cases. Single CD Jewel Cisies. TV-DVD-Video Avermedia TV Tuner Card. Avermedia TV Tuner Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Avermedia CD/DVD Capture Card. Tuner Card. Special Ofters New Mint Desktop Case M/B with PPGA CPU Lipopy drive. Onboart & Sound USB. Lan. 2.1 Gig HD/Drives as New Pulled. 3.2 Gig HD/Drives as New Pulled. 4.3 Gig HD/Drives as New Pulled. 4.3 Gig HD/Drives as New Pulled. 4.4 Gig HD/Drives as New Pulled. 4.5 Gig HD/Drives as New Pulled. 4.6 Gig HD/Drives as New Pulled. 4.6 Gig HD/Drives As New Pulled. 4.7 Gig HD/Drives As New Pulled. 4.8 Speed CD Rom Black front. 4.8 Speed CD Rom Black front. Alson Dischard Complex Speed CD Rom Black front. Included CD Rom Black front. Agama Socket 370 MB Barga 2 ISAA PCJ, AGP, 2 Dimm, 2 USB. 3 Lagla PPGA CPU completed Boxed.	149 160 170 170 170 170 170 170 170 170 170 17
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CD/DVD AUTHORING SOFTWARE

As the price of both hardware and media continues to fall, CD (and latterly DVD) burning is becoming increasingly popular. So, armed only with his faithful SAL9000 computer, an external LaCie d2 DVD rewriter (www.lacie.co.uk), and an asbestos suit, Brad Jackson explores some of the currently available burning software.

NFRO 6

DDICE: £44 99

MANUFACTURER: AHEAD SOFTWARE

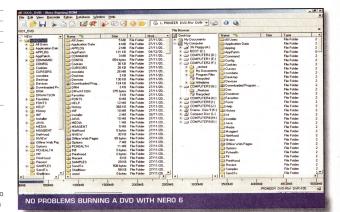
WEBSITE: WWW.NERO.COM

REQUIRED SPEC: PENTIUM 3 300MHZ MINIMUM, 500MB HD SPACE (4.8GB FOR DVD IMAGES), 800X600 16-BIT COLOUR, 64MB RAM (128MB FOR VIDEO EDITING) WINDOWS 95 OR BETTER/CD-RW OR DVD-RW1

Nero, from Ahead Software, has long been regarded by CD burning addicts as a reliable, no nonsense bag of tools and is currently available in version 6. Although Nero can hold the hand of the beginner with all the tenderness of, say, Easy CD/DVD Creator, old hands appreciate the ability to dispense with all the flannel and get down

to some serious burning - and Nero can burn almost anything.

With version 6, the bag of tools idea has been developed, splitting the different applications up into a suite, from which the user can decide the components to install. For example, someone who doesn't want to get involved in the audio or video processing side but desperately desires to copy their backup CD archive can just choose Nero Burning Rom and leave all the other bits out. This saves a little hard drive space, and assists those who prefer to keep their audio, video, and general use systems separate. Once installed, it is vital to get hold of the updates, and I warn you that they can be jolly large files. The good news is that they are split as per the applications, so you can do them in



stages, and I would keep them somewhere safe in case you need them again.

The command centre of Nero is the StartSmart, which has been designed to speed up access to the right tool for the job. In much the same manner, Nero Express can turbo you through simple tasks, like making a quick duplicate of a CD. Nero Burning Rom is the showpiece application, however, and it is here that you create data, music or video CDs. The degree of control provided by NBR remains the main attraction for many users, offering attenuated burn speeds, error correction settings and even overburning capability.

Ahead have included some other spanners and screwdrivers along with the big stuff, all very handy depending on what you want to achieve. NeroVision Express 2 allows you to record videos, and make attractive video features. Nero Wave Editor 2 is an audio editor that can be used to remove clicks and pops from MP3 files, whilst the Nero SoundTrax 2 component allows the creation of professional standard audio CDs with mixed tracks. This isn't the end of the list either - all in all a superb piece of software for all types of media.

QUALITY: 9 VALUE: 9 OVERALL: 9



WWW. EZ COMPUTERS.co.uk

EASY CD/DVD CREATOR 6

PRICE: £39.99

MANUFACTURER: BOXIO

WEBSITE: WWW BOXIO COLLIK

REQUIRED SPEC: PENTIUM 200MHZ MINIMUM (1.6GHZ MIN FOR REAL TIME DV)/815MB HD SPACE (TYPICAL INSTALL), 1024X768 SEVERAL MILLION COLOURS RECOMMENDED GRAPHICS. 128MB RAM, WINDOWS 98 OR BETTER, CD-RW OR DVD-RW

It has been some time since Adaptec developed Roxio as their purpose-built software division, and Easy CD/DVD Creator in previous incarnations has long been the favourite pre-installed burner on shop-bought computers. Roxio has had to endure some teething troubles, and problems with other products, but Easy CD has trundled along quietly, accompanied by its own band of fans and acolytes. The current release, Version 6, is more than just a facelift for the interface; some big things have been added, and other parts have

been tweaked and twiddled to improve

reliability and speed. In short, although it has been a while since the last major upgrade, Version 6 is vastly improved - yet the public are not warming to it. Checking around the Internet for "the word on the street". I noticed a great deal of negative comments from disgruntled users. Why this resistance?

It is, as most of the major burning applications, a software suite comprising all the essential tools required for transferring data to blank media: Disc Copier, AudioCentral, DVD Builder. Photosuite 5, and Creator Classic. Disc Copier enables one to copy different types of disc, AudioCentral organises all your music files (and does it very well, it has to be said) creates playlists and then burns custom-designed music discs. DVD Builder is the DVD authoring component, whilst Photosuite 5 allows the importation, editing, manipulation, and storage of images. There is also a packet-writing component, under the name of "Drag to Disc" and it fires up alongside Windows (perching just above the system tray) for those who like to

use CDs like a hard drive (although they could be a dying breed).

In use, what I noticed most was the lack of atmosphere. Whilst that might sound ridiculous, most software packages have a definite sense of identity and purpose, and if the prize for the group test was awarded solely for the most comfortable and usable software, then Instant CD/DVD would walk it, and Easy CD/DVD would limp in around the bottom. The different components, whilst being integrated, feel disjointed; and there are the occasional incompatibilities.

I didn't feel as confident burning DVDs with Easy CD/DVD, despite it performing reasonably well. However, it is not terribly expensive, and I think if the lifeless and clinical interface could be tweaked, and some minor improvements made to the burn process, Easy CD/DVD could well rise from the ashes.

QUALITY: 5

VALUE: 6

OVERALL: 6







www.EZ COMPUTERS.co.uk

INSTANT CD/DVD VERSION 8

PRICE: £34.99

MANUFACTURER: PINNACLE (STEINBERG)

WEBSITE: WWW.PINNACLESYS.COM

REQUIRED SPEC: PENTIUM 3 500MHZ
PROCESSOR OR BETTER, 200MB HD SPACE,
64MB RAM, WINDOWS 98 OR BETTER,
CD-RW OR DVD-RW

Pinnacle Software has a full catalogue of products for the creation and manipulation of

audio and video, partly thanks to their acquisition of Steinberg, and their hefty product list. I reviewed Instant CD/DVD 8 not so long ago, but with extended use it has grown on me somewhat. Firstly, upon opening the box, you will discover the hefty user manual, which runs to a thorough 282 pages. However, you can jump straight in, get the software installed (this went without a hitch on my machine) and start playing with it right away, thanks to the handholding wizards.

The really good news is that the updates only run to 45Kb - instantaneous, even on a dial-up connection! The "starter application", which Pinnacle has not given

OF INTEREST TO AUDIOPHILES IS THE MEDIA TAB, WHICH OPENS THE DOOR TO AN ARRAY OF MUSIC-RELATED COMPONENTS

a hip name (unlike StartSmart with Nero for example), is the command centre.

Those with an eye for the aesthetic will quite like the skin design - soft curves and pastel shades, no less. You choose what you want to create, and the software leaps to that feature (whilst for those requiring assistance, there are two boxes worth clicking: Show help and Guide Me).

The default window is the "Create" tab, and from here you can make a data, audio, MP3, or Photo/Video disc. The next tab offers point-and-click Copy/Backup tools. Of interest to audiophiles is the Media tab, which opens the door to an array of music-related components - organise your music collection and create custom playlists, compose your own music, or playback tunes on the Windows Media Player. The Extras tab unleashes the ability to write to a disc like you would a hard drive, create a virtual CD drive, get involved in complex projects, or use the

InstantCinema function to playback SVCDs and VCDs.

Determined to explore some of the more intense features, I decided to create a slideshow-based SVCD with music and a scene-selection menu. Since I had never used this before, I relied upon the wizard to gently guide me through, and I managed to create a five-part, 30-minute show, complete with classical background music MP3 files. The conversion to SVCD format took a long time on my 800MHz Duron machine, but the results were impressive. Instant CD/DVD Version 8 is a feature-laden suite, and if I were to find that my brand new PC contained this and not Nero, then I would still be a very happy camper.

GUALITY: 8

VALUE: 8

OVERALL: 8







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MANUFACTURER: GEAR SOFTWARE WEBSITE: WWW.GEARSOFTWARE.COM REQUIRED SPEC; PENTIUM 500MHZ OR BETTER, 100MB HD SPACE, 16-BIT GRAPHICS, 64MB RAM MINIMUM, WINDOWS 98 OR BETTER, CD-RW OR DVD-RWRECOMMENDED, WINDOWS



98SE - XP

Shuffling quietly into the area occupied by the big three comes Gear DVD, from Gear

Software, and since the price for the full version is \$79.95, it is not too much cheaper (if at all) than the competition. The poverty-stricken (and who isn't around this time of year?) would do well to try it on for size for the rather mean-spirited 15-day trial. Also, dial-up customers need to plan accordingly, since at those speeds, the 12.3MB install file could well take around an hour to deliver to your machine. It certainly appears that Gear DVD is unashamedly going all out to steal the Nero/Instant CD/DVD customers, since their "great

IN ACTION, GEAR DVD FEELS INCREDIBLY SOLID AND RELIABLE

big bag of tools" approach is very similar, and previously created image files from other applications are compatible.

Gear DVD will create and burn DVD Video, DVD ROM, and DVD Audio, It has no trouble with Video CDs, CD-ROMs, and for those who like to plan on a grander scale, there is the ubiquitous project creation and management. One can burn MP3 files either as MP3 CDs or audio discs, and creating mixedmedia/mixed-mode CDs is also on the menu. Straight copying is made easier with one-click-burning. There is support for the various buffer under-run technologies, and Gear DVD is said to be compatible with the popular CD-RW and DVD-RW machines doing the rounds at the moment (whether they be blessed with USB1.1/2, FireWire, or part of your computer's internals).

If all that's not enough, you can even print some lovely jewel case inserts to finish the whole thing off properly. In action, Gear DVD feels incredibly solid

and reliable, if a little on the dull side. Now I must make clear that dull is not bad; it just seems a bit unfriendly, and would certainly suit the hardened pro rather than one just dipping their toe in the water for the first time. It certainly is powerful, had no problems finding and getting friendly with the Lacie DVD-RW, and despite being only a small application (some of the others are hundreds of Megabytes in size) manages to cram in a great deal of features.

I managed to create an audio CD relatively simply (with Gear automatically making the conversion to WAV before doing the job). A DVD-ROM burn was also completed without incident, with plenty of interesting messages and reports. Given time, Ahead and Pinnacle could have serious competition.

QUALITY: 8 VALUE: 7 OVERALL: 7

88888 K 2 d on bue ID 0, target ID 0, LUN 0 SOLID AND RELIABLE, BUT A LITTLE TOO EXPENSIVE AND LIFELESS





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PRICE: FREE 30-DAY TRIAL, \$39 ONLINE THEREAFTER

MANUFACTURER: STOMP SOFTWARE

WEBSITE: WWW.STOMPINC.COM

REQUIRED SPEC: PENTIUM 200MHZ OR BETTER, 25MB HD SPACE, 800X600 16-BIT COLOUR OR BETTER, 32MB RAM, WINDOWS 98 OR ABOVE, CD-RW OR DVD-RW

Another nice change from the big names in the industry is RecordNow Max 4.5 from Stomp Software. You get the full 30-day trial treatment, before you have to decide whether it could be a sound investment or not. I would warn all our dial-up users that at 9.7MB, it will involve quite a lengthy period of thumb-twiddling - go and make some coffee and bring the biscuits and this week's Micro Mart.

The install itself was smooth and problem-free, and I was greeted with the RecordNow Wizard - a "quick start" type interface. If you just want to copy create a simple disc, you can do it from here. RecordNow offers the capability to create data, audio, mp3, or even video

FOR THOSE WHO LIKE THE THRILL OF DANGER, RECORDNOW MAX 4.5 IS CAPABLE OF OVERBURNING (WHERE THE LASER THAT IS WRITING TO THE DISC CONTINUES PAST THE 80-MINUTE LIMIT) BLANK MEDIA

discs. I inserted a CD-RW that already contained data - that is, it needed erasing first. I then chose to make a music disc, and then Make a Disc for an MP3 Player, and the software warned me that it would need to erase the disc before it could be used. This was a swift process, and then the burn took place without error. I could have used the Normalize function - this equalises the volume of music files that come from different sources - but since all my tracks were from the same source, I opted to save burning time.

The intuitive wizard makes it easy to get the job done, and the interface is uncluttered and easy on the eyes. A handy extra is the CD ripper - for converting an audio CD into a collection of smaller MP3 files. Another audio freebie is the ability to create audio CDs from a live source. For those who like the thrill of

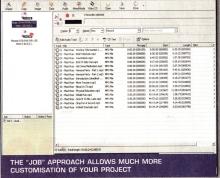
danger, RecordNow Max 4.5 is capable of overburning (where the laser that is writing to the disc continues past the 80-minute limit) blank media. As ever, remember that this can possibly damage your rewriter or playback CD player. and may also invalidate your guarantee. Beware. It is also possible to conduct multiple simultaneous burns on CD and/or DVD - assuming you have the processing power in your computer. It is a little less fun to use than, say, Instant CD/DVD or Nero, but then at \$39 it is rather cheaper and for the price is endowed with a few useful features. My advice would be to download RecordNow for the 30-day trial and then make your mind up.

QUALITY: 6

VALUE: 7



THE RECORDNOW MAX WIZARD MAKES SHORT WORK OF





SO WHAT'S BEST?

There are a great number of image editing products on the market, ranging from about £20 to well over £600, so the product you choose will be dictated by a number of criteria. To start with there's little point in paying a lot of money for a product that's too complicated to use. Where in reality most people would happily manage with any one of the products in this roundup. So while you're making a decision it's worth looking to see if the product you're interested in offers a 30 day trial.

The chart below details some of the specifications for each product in the test. I performed a number of projects using the different software to determine how easy they might be to use, how user-friendly they are and if there is any appreciable difference when processing some of the effects available.

	Nero 6	Easy CD/DVD Creator 6	Instant CD/DVD Version 8	Gear DVD	RecordNow MAX
Cost?	£44.99	£39.99	£34.99	\$79.95*	\$39*
Audio CD Burning?	Yes	Yes	Yes	Yes	Yes
Data CD Burning?	Yes*	Yes*	Yes*	Yes	Yes*
MP3 CD Burning?	Yes	Yes	Yes	Yes	Yes
CD Copying?	Yes*	Yes*	Yes*	Yes	Yes*
DVD Copying?	Yes*	Yes*	Yes*	Yes	Yes*
VCD and SVCD?	Yes, inc. editing	Yes	Yes, inc. editing	Yes	Yes
Notable bonus freebies	Media Player, video & audio editor, virtual drives virtual drives"	Photo editor, music organiser, backup facility	Backup, media player video editor packet writing	Automatic MP3-WAV Conversion DVD Audio capable"	Overburning multiburning, video capabilities, equaliser
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NERO 6



EDITOR'S CHOICE

In spite of the extremely close competition from Pinnacle's Instant CD/DVD V8, Nero 6 is just ahead by a nose. The software does exactly what you want it to, and the tools

supplied along with it are all useful. It is still the best - but Ahead Software needs to keep an eye open for Pinnacle's next move



INSTANT CD/DVD **VERSION 8**



HIGHLY COMMENDED

Pinnacle's entry in the group test has impressed me. particularly since it trounced Easy CD/DVD Creator, once the second-best suite. You decide how involved

you want to be in the process; otherwise Instant CD/DVD just gets on with the job. This, coupled with the plethora of extras, makes for a brilliant piece of software.















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Model

Model

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ONENOTE 2003

PRICE: £163.32

MANUFACTURER: MICROSOFT

WEBSITE: WWW.MICROSOFT.COM/

OFFICE/ONENOTE

REVIEWER: MICHAEL FEREDAY
REQUIRED SPEC: WINDOWS 2000/XP,
233MHZ, 128MB RAM, 100MB
HARD DISK SPACE



Launched at the same time as Office 2003, OneNote 2003 is Microsoft's solution

to the problem of creating and managing snippets of information. Primarily designed with the Tablet PC in mind, OneNote can prove to be just as useful, although you do miss out on one or two features, on a laptop or desktop computer. While more than happy to work as a complimentary package to Office 2003, OneNote is equally at home when operating as a standalone program in its own right. Following the pattern set by the latest version of Office, OneNote requires either Windows 2000 or Windows XP.

Installation follows the normal Microsoft procedure. Apart from a few mouse clicks, the only input required



from the user is to enter a 25-character serial number and select from a choice of Typical, Custom, Minimal or Custom set-up. Later you will need to activate the product by either telephone or going online. This task does not need to be carried out immediately but after using the program 50 times certain features will become unavailable until activation is implemented.

OneNote attempts to integrate a standard Windows-style look and feel with a page/document approach. Menu and button bars run across the top of the page while user-created tabs allow switching between specific sections that have been created. When necessary a task pane will open on the right side of the screen and show appropriate options. The effect is generally intuitive and works well.

Entering information can be carried out by a variety of methods. The most simple is just to type in data using the full range of your Windows fonts and style attributes. This information can be supplemented by the use of a pointing device, such as a mouse or graphics pen, to draw freehand shapes, diagrams and highlight portions of the page. Drawing tools in the form of felt tip pens and highlighters are available in a range of colours.

You can insert images, symbols and even extra writing space plus add sub pages and sections to your document. Lists can be created with bullets or numbers. Individual items can be moved around and tagged with flags representing various categories of importance or type. Ruled lines can be overlaid or removed from pages. If, as can sometimes happen, you become



engrossed in your note taking and forget to save or your system is disconnected for whatever reason, then do not worry. OneNote automatically saves your work on a continuous basis while the program is active and again when you close a page or exit the program. When reopening OneNote you will be presented with your work exactly as you left it.

Of course not all note-taking involves the written word. Audio can also be used for taking notes. Simple click on the microphone icon on the tool bar or select Audio Recording from the Tools menu and OneNote will creete a .wma file. It will place a marker with the date and time of the recording at the current position in your notes. The audio note can then be replayed at your leisure.

While not suitable for everybody and a little expensive, OneNote is the type of product that you appreciate the more you use it. For those involved in note taking, it could prove to be invaluable.

QUALITY: 8
VALUE: 5



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ADOBE PREMIERE PRO

PRICE: £546.37

MANUFACTURER: ADOBE

WEBSITE: WWW.ADOBE.COM

REVIEWED: INF I AVEDY

REQUIRED SPEC: 800MHZ PROCESSOR (3.06GHZ RECOMMENDED!), WINDOWS XP, 256MB RAM, 800MB HARD DISK SPACE, 1024X768 DISPLAY

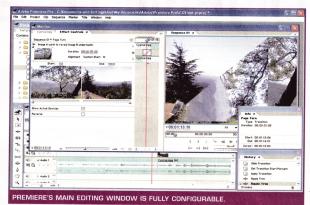
Although I've been interested in shooting and editing home video films for many years,

it's only since the development of digital video that I've been able to produce what I consider to be acceptable results. That's because unlike analogue video, with digital you have the facility to edit, make lots of changes to the original footage and write it out (practically unchanged) to DVD. At the same time the software to create these semiprofessional productions is becoming more sophisticated by the year. Which brings me to the seventh incarnation of Adobe's Premiere now bearing the name of Premiere Pro.

This is very much a product for the professional and the price reflects that. although it has the added attraction of being able to interface directly with many other Adobe products. So you can integrate artwork and effects from Photoshop or Illustrator, together with animations and motion graphics from After Effects and Encore.

When I start a review the interface is normally one of the first things I'd comment on, but Adobe has given you something of a choice. Here, the interface is fully configurable, both in terms of where the various windows sit on your desktop and in the editing style you choose to adopt. These settings can also be saved and reused depending on the project you're working on.

Among the new features in this version is the ability to have multiple video tracks for editing in the timeline.



rather than the single track that was available before. You also have a new method of collating clips called sequences, where sections are grouped together or nested, so you can manipulate them and get a better overall picture of your project.

Although Premiere provides many methods of achieving the same result, once you start to edit you'll find that the new ripple editing tool is brilliant. To start with it's available directly from the mouse pointer, so cuts and edits can be made quite simply without moving from the timeline. In addition the effects and transitions are easily dropped into the position they're needed. Some editing software will create gaps in the video stream when a cut is made, so you have to effectively join the two sections back together again. With ripple editing the sections either side of the cut automatically closes up to fill the gap.

I'm pleased to see that Premiere now incorporates scene change detection between individual clips, or from the whole tape as well. And in order to save time and processing resources, you can edit using low resolution clips and then

later batch capture the full resolution version of only the footage you need. If you have a DVD burner it will also write the finished project to DVD in a number of different formats.

I'm sure that Adobe are aware that Premiere is not the most intuitive product to use. But they effectively combat that by providing the newcomer with a wealth of tutorials and examples. both within the program and directly accessed from their website. The package also includes a DVD containing 90 minutes of absolutely brilliant video training taken from the Total Training series. This is presented in a format. where you can see exactly what the tutor is doing, while he talks you through each operation.

The clear downside here is the price. Pinnacle's Studio 8 will suit the more casual user just fine, and cost a fraction of what Adobe are asking. But this is the professional's choice, and it's a case of if you want the best ...

QUALITY: 9

VALUE: 5

OVERALL: 8



www.eclipse.computers.com



SONY USB 32MB MICRO VAULT

PRICE: £30

MANUFACTURER: SONY

WEBSITE: WWW.SONY.COM

REVIEWER: PHIL KAVANAGH

REQUIRED SPEC: USB PORT



In years gone by we relied on the floppy disk to transfer data. Back then 1.44MB was more

than enough. These days with people having digital images, MP3 files and the likes we need better means of transferring files. The advent of USB storage media is a welcome invention.

This device from Sony simply plugs in to a spare USB port. Windows recognises it as a removable storage device and installation is done. This version is 32MB in size and is simplicity itself to use. Just treat it as you would any other drive on your PC, files can be added and removed and then taken away. It measures roughly 4 inches in length and about an inch in diameter so will easily fit in your pocket.

Two small LEDs flash when the device is in use. I cannot remember the last time I used a floppy disk to transfer data. Whilst many of us use CDs these days the USB storage media is a far handier, simpler and reusable piece of equipment. Well worth investing in, although you could get lesser branded devices a bit cheaper.

QUALITY: 8

VALUE: 6

OVERALL: 8

TRUST 770Z POWERC@M OPTICAL ZOOM

PRICE: £150

MANUFACTURER: TRUST

WEBSITE: WWW.TRUST.COM

REVIEWER: SIMON BREW

REQUIRED SPEC: USB PORT

(FOR PC CONNECTION)



Too often, low cost digital cameras are selling themselves off the back of a

digital zoom function, which effectively uses clever software to do the work of a proper zoom lens. The end result? Generally pretty poor, which is why we were curious about this new Trust device, which packs in a 3x optical zoom, proper 3.3 megapixel resolution and an integrated flash light.

First impressions? Not too bad.
Despite the decent enough exterior, the camera does have the feel of a budget device, but it goes about its business well enough. The TFT screen display is good enough to help frame your shots, although we were alarmed

at just how quickly it ate up a pair of Duracell batteries. Make no mistake, the 770Z hogs batteries at a very quick rate. Furthermore, it's not always easy to focus your shots, despite having auto focus built in. It is exceedingly easy to use, though, with the unit labelled clearly and allowing even novice users to be taking shots in little time at all.

And the shots you take, crucially, are really rather good. We tried and tested a variety of lighting conditions, and found that - despite those aforementioned focusing issues - the majority of images were perfectly usable and made for good prints. Outputting those images is a doddle, too. Supplied with BMB of storage, it's as simple as you'd expect to hook the unit to a PC via a USB lead and sort them from there, and it's likewise possible to buy additional storage space.

So, in all, really quite a commendable camera. If you're looking for something that's for casual use on a reasonably tight budget, then it does fit the bill quite

well. We wouldn't advise it for users after plenty of features, though, nor for those who do demand quite a bit more from the hardware. Yet, considering that good optical zoom in this price bracket isn't incredibly common, it's a camera that deserves at least further investigation.



QUALITY: 6

VALUE: 7

OVERALL: 7

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ACDSEE 6 POWER PACK

PRICE: £39 99

MANUFACTURER: GUILDSOFT

WEBSITE: WWW.GUILDSOFT.CO.UK

REVIEWER: JOE LAVERY

REQUIRED SPEC: PENTIUM PIII 500MHZ OR EQUIVALENT, 64MB OF RAM, 60MB OF FREE HARD DRIVE SPACE, 16 BIT VIDEO DISPLAY, WINDOWS 98 SE/ME/2000/XP

>

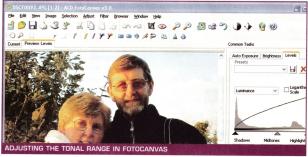
I was first introduced to ACDSee by a friend about four years ago, when I believe it was a shareware

product. I recall being very impressed with its speed and slick operation, where it had the distinction of being one of the fastest image viewers on the planet. Well it seems that ACD Systems have expanded their portfolio, because the product sent for review bears very little resemblance to the one I remember.

It still takes some beating on the speed front, though, because it reads the file ahead. So when you click on a picture it's already loading the next one. But what we have here is much more than that, it's a Swiss army knife of image manipulation, encompassing an image editor, photo album database, file viewer with slideshow facility. It even includes a program to turn your photos into an MTV style music video. Yikes.

So what used to fit on a floppy disk, (remember those ... funny flat plastic things?) is now supplied on four CDs, although I should mention that three of the CDs contain images and associated files from Corbis, and very nice they are too. Don't confuse them with the usual low resolution rubbish bundled with many graphic programs, these are sharp high-quality images that are probably worth the price of the product alone.

But wait; there's more! I forgot to mention one of the jewels in this photographic crown, the superb Photo Stitcher from RealViz. It's a plug-in accessed from the main browser window that will



turn your images into a full 360 degree panorama, or if you've taken less pictures, a cinemascope style landscape. Of course you need to have taken the shots with this feature in mind but they don't need to be perfectly aligned, because the stitching algorithm will do that for you. It's not quite as quick as MGi's Photo Vista but I'd say the results are actually slightly better.

The image editor FotoCanvas has enough tools and filters to sort out most faults that occur while taking photographs. Things like red eye removal, straightening horizons, contrast and colour adjustments are easily dealt with. Its stablemate. FotoSlate, allows to you to print out the results as a calendar, or greetings card, or in any number of different page layouts. If you prefer to try something a little bolder then ACD Video Magic will transform your images or video clips into a self contained slide show (complete with music and transitions between each frame). It comes with lots of different templates, including one that simulates an old sepia tone film. complete with scratches and the occasional frame jump. It's quite fun to use as well. The main browser interface remains one of the nicest and easiest to use, for organising and archiving all forms of digital imagery. You can create albums with contact sheets, burn your photos to CD or DVD, apply quick



modifications and view the EXIF Metadata stored within images created by most digital cameras.

As you can see this is a very comprehensive package that's extremely good value and to be perfectly honest I've only scratched the surface. It works very well, too, and comes highly recommended.

QUALITY: 8
VALUE: 9
OVERALL: 9
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MUSIC MAKER HIP HOP AND **R&B EDITION**

PRICE: £19.99

MANUFACTURER: MAGIX/FAST TRAK

WEBSITE: WWW.MAGIX.COM

REVIEWER: BRAD JACKSON

REQUIRED SPEC: PENTIUM 300 PROCESSOR (MINIMUM), 550MB HD SPACE, 64MB RAM (MINIMUM), WINDOWS 95 OR ABOVE



Magix/FastTrak have released the very thing for all frustrated hip hop wannabes, in the

shape of Music Maker Hip Hop and R&B Edition. In essence, it is a slightly cut down version of the big Music Maker 2004 package, but it is a cheaper introduction to the Music Maker world It comes as a 3-disc set, with 2600 loops and 60 video clips from which you compose your chart smash. There are up to 64 stereo tracks available, and the loops and samples (even your own WAV cuttings) are dragged and dropped into empty slots.

Of worthy mention is the Magix Audio Effects Rack, present in both Hip Hop Edition and the big brother 2004, which enables you to change the dimensions of your chosen sound to produce unique results. Also on board is a scratch box. beat box, vocoder, piano, and voice synth. Once your million-seller is finished, you can add an interesting accompanying video, or burn your creation to CD. It's all straightforward to do, and that's to the program's credit.

If this is the genre of music you have set your heart on, then this will help you make the music - the gold chains, sports car's and champagne lifestyle is down to you! It does though perhaps go without saying that if hip hop isn't really your bag, then this won't be either.

QUALITY: 8 VALUE: 8 OVERALL: 8

HOME DESIGN ARCHITECTURAL SERIES

MANUFACTURER: MAP & TRAVEL

WEBSITE: WWW.FASTTRAK.CO.UK

REVIEWER: MICHAEL FEREDAY

REQUIRED SPEC: WINDOWS 95 OR LATER, 64MB RAM, 920MB HARD DISK



Property make-overs are still fairly popular. It doe not matter whether you admire the

courage of those who make their property available or wonder at their foolhardiness. there are still plenty of willing volunteers for the various reality television programs that carry out home "improvements". Of course, for those who do not want this particular form of limelight and prefer starting from scratch, there is the DIY route. Offering to help is Home Design Architectural Series developed by Punch Software and available from FastTrak.

Consisting as it does of 18 programs, you would expect Home Design's installation procedure to be time consuming and you would not be wrong. The file copying process took the best part of 15 minutes on a 350MHz Pentium III system running Windows 98. An online user guide in Adobe Acrobat format is available just in case you mislay the 300 page printed version.

As mentioned earlier. Home Design consists of 18 programs, although modules would perhaps be a more appropriate term, that have been combined into a single application. Home Design's main interface has a CADstyle look to it. A central design area is surrounded by various tool bars. There are specific tool bars for previews, guides, annotation and power activities such as photo view, estimating cost and importing / exporting DXF files. A row of tabs allow you to switch between the different lavers of your plans and, in some cases, this will change the tool bars that are present.



For example selecting the Landscape tab brings up a Landscape tool bar.

Starting with the foundations, you can create a floor plan with electrical. air ducts and plumbing features in place. Home Design provides a range of precision drawing tools that help in the exact placement of doors, windows and the like. These items can be dragged from a preview bar and have the dimensions automatically displayed. Walls and roofing sections can be constructed using a variety of textures.

Options are available to view a 2D plan and/or 3D representation of the design either in full or split screen mode. When using 3D mode, rendering is generally quick. You can alter the viewing angle to see the building from different sides but this does tend to be rather hit or miss and can result in a severe case of the jaggies when the building is portrayed on-screen

Home Design does suffer somewhat. from an identity crisis. Its price point, packaging and ability to create a cut-out model of your work mark it down as a product for an amateur designer. Yet the program's power and complexity, without the aid of a tutorial, seems more suited to the professional architect.

QUALITY: 7 VALUE: 6

OVERALL: 6



THE SIMPSONS: HIT & RUN

PRICE: £34.99

MANUFACTURER: VIVENDI
WEBSITE: WWW.VUGAMES.CO.UK

REVIEWER: SIMON BREW

REQUIRED SPEC: 700MHZ PROCESSOR, 192MB RAM, 1.2GB HARD DISK SPACE

WINDOWS 98 OR GREATER



There are several cornerstones of gaming that you can always seem to rely on. Things like

the fact that Army Moves games are always rubbish. That a new FIFA game will come along at least once a year. And that games based on The Simpsons are always, without fail, rubbish.

However, we've had to re-evaluate the very foundation of our gaming beliefs. For Simpsons: Hit & Run, whilst hardly likely to qualify for any end of year awards, certainly has its moments. It's mildly amusing, for instance, It takes place in a graphically spot-on virtual Springfield. And, whilst never matching it, its Crazy Taxi aspirations, does occasionally make it through to the gameplay.

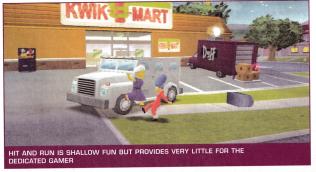
A simple structure underpins it all. As Homer, you're continually presented with tasks to do that ultimately involve moving an object from point A to point B. That invariably involves a little bit of driving, and then some vehicular-based transport. You may be racing to get the job finished ahead of someone else at times, but otherwise you're left casually driving round, with the ability to knock down virtually everything without a pulse. In fact, you're positively encouraged to do so, in order to unlock the funding to buy yourself upgrades to your motor.

It's shallow fun, and little more than that, yet Hit & Run has an innocent appeal to it. It's easy to get into, and the learning curve is suitably gentle, although that's pretty much down to there being nothing to learn. On the downside, its questionable whether you'll still be playing it in a week, yet alone a month or two, and whilst ankle-biters will perhaps get more out of it, there's not much to interest the dedicated gamer.

But, it's an improvement. PC owners have been subjected to rubbish like Simpsons Wrestling, and some odious skateboarding game that came around last year. And whilst Hit & Run may struggle to justify the asking price at times, you can't help feeling we've got off lightly.

QUALITY: 5
VALUE: 4

OVERALL: 5



POP IDOL

PRICE: £29.99

MANUFACTURER: CODEMASTERS

WEBSITE: WWW.CODEMASTERS.COM

REVIEWER: SIMON BREW

REQUIRED SPEC: 700MHZ PROCESSOR, 128MB RAM, 250MB HD SPACE, WINDOWS 98SE OR GREATER





To be fair, it smelt like a cash-in from day one.
Bringing the bad singing,

humiliation, cutting comments and various occasional pieces of talent to a PC game was always going to tricky, but cunningly, Codemasters realised this too and thus decided not to bother.

So, what you get is a blatantly easy game that you'll win first or second time round. You create a character, sing a song by hitting the right button on the keyboard at the right time, listen to some seemingly random comments from the judges from the American version of the show (Simon Cowell is the only common link) and see if you get to the next round. Oh, you have to pick your outfit too, and if you do well, you can unlock new clothes.

There's, oooh, a good ten minutes of entertainment for your money, before you realise that you've pretty much seen all the game has to offer. It's unchallenging, unsatisfying and astonishingly bad value for money. It may, at a major stretch, pacify hard-core, younger fans of the show. But it probably won't.

QUALITY: 2 VALUE: 2

OVERALL: 2

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CITY TRADER

PRICE: £9.99

MANUFACTURER: GSP SOFTWARE

WEBSITE: WWW.GSP.CC

REVIEWER: BRAD JACKSON

REQUIRED SPEC: PENTIUM 266 PROCESSOR. 32MB RAM, WINDOWS 98 OR ABOVE. 8MB 3D GRAPHICS

I have long been a fan of management games, starting with the old Football Manager on the ZX Spectrum, and shares games are a particular favourite. City Trader manages to combine highly intricate number crunching with some rather splendid graphics - unusual, since most

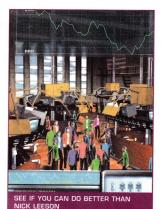
games of this nature are heavy on the

too; and as such, there is no way you

text. It is an extremely complicated game

could pick it up and be playing a real campaign quickly. The tutorial is thorough however, and rapidly takes you through what you need to know to play effectively.

The game takes place in four main areas: the virtual desk, which is your "central command" headquarters, vour base from where you shall take over the world. Next comes the stock markets (watch out for the graphics of people waving frantically!) where you do the buying and selling. The action then moves to the offices of your financial empire - employ bright young stars to help you own the world. Lastly, there is the pub, where you glean snippets of info and do shady deals. It's a good game, highly addictive, and you don't get thrown into Shanghai jails if things go wrong!



QUALITY: 7

VALUE: 8

OVERALL: 8

WILDLIFE PARK

PRICE: £29.99

MANUFACTURER: KOCH MEDIA

WEBSITE: WWW.KOCHMEDIA.CO.UK

REVIEWER: KAT GALBRAITH

REQUIRED SPEC: 128MB RAM, 800MB HARD DISK SPACE, WINDOWS 98 OR GREATER, 500MHZ PROCESSOR

4MB GRAPHICS CARD

Fancy yourself as Steve Irwin (aka Crocodile Hunter)? If you do, 'Wildlife Park' is your chance to design and manage your very own wildlife park. Design it, build it, buy your animals, employ staff, and then open your doors to the public!, Sounds easy eh?

Well, actually it's not ... This is one of the most frustrating pieces of software I have had for a long time. Even now as I look with disbelief at the '3+' on the box (I am assuming this is an age indicator, I could be wrong), I find it hard to believe that a child of 3 years could grasp the applications interface, let alone interact

with it enough to get a park up and running. In my opinion, any child under 10 is going to need adult supervision or advice, if they are to really make the most of this game. This is well worth taking into consideration before you part with your cash. Don't get me wrong, when you know how to operate it, and I highly recommend that you take the tutorial before embarking on building your park, this is a nice little plaything. The graphics are pleasing and the functions quite advanced, one could easily start to take this game very seriously. It also has different levels of difficulty and 'budgeting', which means young, old. inexperienced and experienced can tailor the game to suit.

When it comes to creating your park, there are a wide variety of environments. animals and features. The choice is impressive, just about everything you could wish for is here, though it is worth



brushing up on your animal facts before embarking on anything too ambitious. This is just like the real thing...animals can attack, or get sick from placed in the wrong environment...and animal-right campaigners will ambush your park if you get it wrong! With so many things to be taken into consideration, at first it can be a little daunting. My advice? Start small and work your way up.

QUALITY: 8

VALUE: 5

OVERALL: 6



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FREQUENTLY_ASKED_QUESTIONS

Darren Woodward tackles more posers that come round on a regular basis.

CAN I SEND FREE SMS TEXT MESSAGES VIA THE WEB?

A SMS (Short Message Service) text message, is a textual message that can be sent from

one mobile phone to another. However, for one reason or another it may not be possible to send a message to somebody's mobile phone, and in this case you would need to use a free service on the world wide web

There are several good websites that will allow you to send free SMS text messages, but not many will allow the mobile phone user to reply back to

IS IT POSSIBLE TO VIEW TELETEXT VIA

THE WEB?

The latest Teletext based news, such as 'TV Listings'. 'Weather', 'Lotto Numbers'

and the latest headlines can be found at http://www.teletext.co.uk. If you want to get real Teletext via your computer you will need to purchase a TV Card that supports the Teletext feature.



you. These 'one way' internet SMS text messaging services can easily be found by doing a quick search on http://www. google.com. Most websites will require you to sign up in order to use the service, and some even require you to have a valid mobile phone number, to which you will be sent a validation code for authentication purposes. Some websites that require your mobile phone number will allow you to have replies sent back to your phone, but this may cost you, so always read the small print. My personal favourite way of

sending free text messages is using ICQ. ICQ is an Internet instant messenger, a bit like MSN, and has a free SMS text messaging service which allows you to send approximately 70 free SMS text messages per day.

*Always be careful not to disclose your mobile phone number (or any other personal details) to anybody on the world wide web. Even if you think you know the person you are conversing with, it is not impossible that they could be pretending to be the person that you know. *

IS IT POSSIBLE TO WATCH TV FROM AROUND THE WORLD VIA THE WEB?

Yes, it most certainly is. However, I would only

recommend you attempt this with a broadband Internet connection. because using a dial-up connection you will experience degraded quality.

One such website that lists a host of online TV feeds from around the world is: http://wwitv.com/ns.htm. You will need either "RealOne Player" (http:// www.real.com/realone/index.html)

or "Windows Media Player" (http:// www.microsoft.com/windows/ windowsmedia/download/default. asp) installed in order to receive most TV feeds. *Always virus scan your downloads*



I WANT TO BACK-UP A DVD MOVIE. BUT I DON'T SEEM TO BE ABLE TO DO IT WHAT AM I DOING WRONG?

Most DVD movies are encrypted, which prevents them from being copied using conventional back-up methods. However, a program has been developed known as "DVD X Copy", which will allow you to make legitimate back-ups of your DVDs (assuming that's allowed in their conditions of sale).

Should a DVD movie be too big to fit on a recordable DVD, DVD X Copy will

even compress the DVD movie so that it will fit onto a standard blank DVD. DVD X Copy also has a nice "Simple" mode, which will allow you to back-up a DVD at the single press of a button.

Note: Illegally copying DVD movies is not prohibited with DVD X Copy. If you do copy DVDs illegally, you could be prosecuted to the full extent of the law. The DVD X Copy website is:

http://www.dvdxcopy.com



Have you got a technical problem that you need an answer to? Why not ask our resident technical expert, Adam Anderson?

Each week Adam will be answering your queries and adding comment of his own. He deals with general hardware and software problems (although if you have a specific problem with your current PC, please send that to Jason D'Allison), and can also advise on the likes of upgrades and building your own machine.

Unfortunately, he cannot give personal replies to your questions, but he will endeavour to answer as many as possible in this section. You can write to him at:

Adam Anderson Micro Mart 1st Floor, Edward House, 92/93 Edward Street, Birmingham, B1 2RA.

Alternatively you can email him at: adam@micromart.co.uk

Please try to keep your queries brief and limit them to just one question per letter. Note that any queries that Adam doesn't have the space to answer may end up in our Questions and Answers page later on in this section.

However, he endeavours to cover as many queries as possible every week across these pages.

ASK_ADAM

In issue 777 C Troy asked why his motherboard was reporting his XP2600+ as a 1917. Bernie Taylor has the full answer here:

THREE TYPES

There are 3 types of Athlon XP2600+; a 266MHz FSB Thoroughbred, a 333MHz Thoroughbred and a 333 Barton, see link below to AMD tech does for the Bartons: http://www.amd.com/us-en/assets/content_type/white_papers_and_tech_does/26237.PDF

The XP2600+ Barton runs at 1917MHz, so C Troy's PC is running at the correct speed, however the BIOS isn't identifying the processor by its XP rating.

As you suggest getting the latest BIOS should enable the CPU to be correctly identified. I also have a question.

I have a Tyan Tachyon G9600 graphics card, which is an AGP 8x card. I have put this card in a KT333CF motherboard with an AGP 4x slot, and also in a KT400 motherboard with an AGP 8x slot. I ran 3D Mark 2003 in each case and I got scores of 3380 and 3345 respectively. I would have expected the 8x slot to have made the card faster and thus a larger score, or am I missing something? I checked that the AGP slot was working at 8x in the KT400 and at 4x in the KT333CF.

I now have the card in a KT600 motherboard where I get a score of 3562, but all the benchmarks (memory, CPU) I have run on this motherboard are higher than those obtained on the previous 2; I think this must be due to a better chipset.

Bernie Taylor

In itself AGP 8x doesn't give you a performance gain over AGP 4x, although you'll often see a small improvement when you run benchmarks. In your case you saw no improvement which suggests that you weren't running settings that required the extra data rate offered by AGP 8x. The scores you got suggest you ran the default resolution of 1,024 x 768. If you can be bothered, try the tests again 1,600 by

1,200 and I'll bet you a fiver that there is a performance gap, and I'll bet you another fiver that it's a very small gap.

I have no doubt that you're quite right about the KT600. Its Northbridge has more transistors devoted to the memory controller cache than previous chipsets, and that boosts performance by a useful amount.

IS IT THE FASTEST?

I have a Gigabyte GA-7VKML with an XP1800+ processor. On the Gigabyte website it is stated that a XP2600+ (266MHz) is the fastest processor that this motherboard supports.

In the BIOS there is up to 200MHz (400MHz) FSB available. Can I fit a Barton processor at 166MHz (333MHz) and get it to work 0K? I have the latest BIOS (version FB) installed.

R.Coburn

You're quite correct that the fastest processor you can use is the XP2600+ (266), and that even the XP2600+ (333) is out of reach. The limitation is the VIA KT266 chipset which only supports the 200 and 266MHz FSBs. VIA introduced the KT333 to support the 333MHz FSB and then the KT600 to support the 400MHz FSB.

VIA has always been good at supporting overclocking, which is how it surged ahead in the days of Pentium II and III, so it's no surprise that your Gigabyte can be persuaded to run a little faster than standard but I would be surprised if you can push it very far, and 400MHz sounds utterly impossible.

CRISIS OF CONSCIENCE

Can you help me with this problem please.
About 6 months ago I built a new computer.
I installed a not-so-legal copy of Windows XP
Pro. This has worked fine but I have had a
slight attack of conscience and recently bought
a legal DEM copy of Windows XP home. When
I started to install XP Home, I started to get
messages like "XP home can't upgrade XP Pro'



etc. and warned me I might lose files if I continued.

It gave me the option to put XP Home on a partition of my hard disk. I know nothing about partitions and declined that choice. I may have done some more/ other installation steps before or after this but can't be certain. I eventually chickened out and cancelled the installation. When I restarted my computer during boot-up it asked me to choose XP Pro or XP Home, which I'd not seen before. I chose Pro but I had all sorts of problems, especially with my CD/DVD drives. Fortunately I remembered the 'System restore' facility and now the computer is working fine again with XP Pro. I still want to be legal but, although I could do it, I don't want to do a full re-format of my HD & then install XP Home. If I install XP Home on a partition, does that mean I'll have both systems on my HD - wasting space and confusing boot-up?

A further spin off from this is that in the manual with XP Home, it says, [with no detail], that the software has to be 'activated' within 30 days - a technique to prevent installation on another computer'. Well, 'cards on the table', I would like to install it on my old computer and without making you an accomplice, can I/how do I do it? If not, I may have to go not-so-legal again.

RC - Cheshire

Windows XP Pro contains all the elements of XP Home, plus a few networking and admin features. In addition certain settings have one default in Pro and another in Home. XP Pro is counted as an upgrade to XP Home, hence its far higher price.

If you install both versions of XP on separate partitions then you'll use up more hard drive space than if you had a single installation, but that's common sense really.

The real issue is that you will fail to tackle the matter of the illegal XP Pro installation, as you will have simply added a legitimate version of XP Home.

The Windows activation process is tied in to codes within your BIOS that identify the hardware you have installed and that in turn creates a unique identity number for your PC. Taken together with the 25 character code from your Windows CD, Microsoft has been able compile a massive database of Windows IDs, although it states that these IDs do not identify individuals.

For the time being Microsoft seems to be content to track down the sources of dodgy copies of Windows, rather than coming after individual end users. In addition it locked out a huge number of cracked copies of Windows when it released Service Pack 1, which means, among other things that you won't have USB 2.0, but instead will be restricted to

USB 1.1. No doubt this process will continue with Windows XP SP2, but you should also be aware that Microsoft has a further trick up its sleeve. For some time now the Microsoft license on Windows and its updates asks you to confirm that you have the right to sue the software and it strongly suggests that Microsoft has the right to deactivate your software if it detects something that it dislikes.

I can see no reason why Microsoft couldn't release a Service Pack that checks your installation ID, then, rather than merely refusing to install if it suspects your copy of Windows is knock-of, it could lock out Windows completely and force you to contact Microsoft for an activation code before you can use your PC again.

The activation process is now quite well understood and appears to be very secure. Personally I wouldn't consider installing one copy of Windows over another, and neither would I attempt to change the product ID, but if you are determined to do so, look here for the process: www.lahmice.net/WindowsXP/articles/changeID.htm

Personally I would back up all my data and note all my settings, then I'd format the hard drive and install Windows XP Home from scratch. And we certainly wouldn't recommend going back to illegal ways...



Introducing Jason D'Allison, another member of Micro Mart's panel of experts. Jason's expertise is in troubleshooting problems with your existing PC, so if you need his help, then write to him at:

Jason D'Allison Micro Mart Trinity Publications 1st Floor Edward House 92/93 Edward Street Birmingham B1 2RA

Jason can also be contacted by e-mail at: jason@micromart.co.uk.

It's the same contact details if you want to get your joke featured in his Wit of the Week slot.

Whilst we try and cover as many problems as we can (hence the fact that Ask Jason now runs to twice its original size), we regret that Jason cannot answer your questions personally. Nonetheless, he'll cover as many as he possibly can through these pages.

Note that any queries that Jason doesn't have the space to answer may end up in our Questions and Answers page later on in this section.

Please try and to keep to one question per letter, and include details of your PC's specifications (including OS).

ASK_JASON

SERVICE CRACK 1

Recently I bought a new PC from a local computer fair. It was preloaded with Windows XP Professional, and I managed to get a recovery disc from the seller. However, whenever I try to download Service Pack 1, I'm told my product key is invalid. I've contacted the seller for a valid key, but I've been told that because the operating system is registered to them I can't get Service Pack 1 - or any other updates. Is this normal practice?

Alan Culshaw, Freeserve

No, Alan, this isn't normal practice - they're taking you for a fool. Your installation of Windows is almost certainly illegal - you need your own product key, not theirs. Also, you say you've been given a recovery disc. but is this just a CD-R? Whatever it is, I doubt it's endorsed by Microsoft. All in all, Alan, these guys sound like a bunch of jokers - or pirates. You see, Microsoft is aware of a number of product keys that are in wide circulation on pirate copies of Windows. If the installation routine for Service Pack 1 detects one of these keys, it will halt. I'd say that's what's happening to you. I'd also say you need to have words with these people very soon. Wish them a happy new year while you're about it - or not!

BUS FUSS

Back in issue 776, John Black had this to say: 'Having read the group test in issue 774 about processors for under £59, I'm rather taken with the 1.6GHz Duron. Would it overclock for me on my M830L/K7S5A motherboard? Currently I'm using a 1GHz Duron, but I've been thinking about changing it for a while now.' Well, after some advice from me about updating to a third-party BIOS, John sprang into action. However, he also ran into trouble...

Replacing the chip was straightforward, and I soon flashed the BIOS with one from Cheepoman. At first, though, the screen went black - and stayed black. However, I read the motherboard instructions, configured some jumpers, and the screen lit up again. A setting

of 166MHz/DDR333 was available for the front-side bus, so I plumped for that. Alas, the screen went black again. At this point, I lost my bottle, so I reinstalled the original BIOS. Should I now leave well alone, or should I try, try again?

John Black, Ntlworld

Where you've come unstuck, John, is with the front-side bus of DDR333. For that to work, the memory needs to be able to keep pace. However, as your previous processor was a lowly 1GHz Duron, your memory might be rated as low DDR200. Furthermore, regardless of the memory, pushing the front-side bus so high was always likely to frighten the life out of the SiS735 chipset. In issue 776 I said this: 'With a new BIDS, you should be able to ramp up the front-side bus from the stock DDR266 to somewhere approaching DDR300.' In a nutshell, then, John, DDR333 is simply too high. If you try again (and why not?), try some less adventurous settings.

THE WEAKEST LINK?

In an issue a while back you gave a link to a site that gives the definitions of computer abbreviations. Could you repeat it? I've thrown that issue away.

Jenny Bayliss, Pipex

Thrown it away! Already! I gave that link in issue 771 - that's only about ten weeks ago! Anyway, the site you're after is The Ultimate Computer Acronyms Archive. Here's the link: www.acronyms.ch. I'd write that down, Jenny, if I were you.

CHEAP AS CHIPS

I'm putting together a mid-range PC. I'm very interested in the PC Chips M848ALU motherboard, but at only £25, is it too good to be true? It seems to come with everything I need: support for DDR400 memory; support for DDR400 Athlons; five PCI slots; AGP 8x; and USB 2.0. It also seems to come with



Dolby Digital sound and a LAN adapter - things I'll never use! But is it any good? And is the Athlon XP 2500+ a suitable chip to run on it?

Jeff, Hartlepool

The M848ALU - also known as just the M848A - is a terrific board. I've had several pass through my hands and they've all been fast and solid. The main reason for that is the vastly underrated SiS74B chipset - it's in the same league as the nForce2 400. And yes, the Athlon XP 2500+ is the perfect partner. Here's a word of caution, though, Jeff: if you're into overclocking, the M84BA isn't for you. It's a no-firills affair and features no overclocking facilities whatsoever. If you can live with that, though, you simply can't go wrong.

THE OLD MILLENNIUM

The following query is very similar to one I answered in issue 774. However, seeing that some of you will have received a bit of cash over Christmas, cash that is no doubt burning holes in pockets, I think

the advice I gave back then deserves repeating. So here goes...

I'm going to give my second PC a bit of a boost by fitting a new graphics card. I'm willing to spend up to £50. What do you recommend and why?

Ross Lamb, Freeserve

Within that price range, Ross, your choice is pretty much limited to cards based on either ATi's Radeon 9200 or nVidia's GeForce FX 5200. In ATi's favour, Radeon cards are generally thought to offer superior image quality to FX cards; and in nVidia's favour, FX cards support DirectX 9.0, whereas 9200 cards top out at DirectX 8.1. So the choice is yours - it's swings and roundabouts. Overall, though, any card based on either chipset should make a decent all-rounder. But here's a word of advice: if you go the 9200 route; avoid the 9200SE. This is crippled by a 64-bit memory bus, in contrast to the regular, non-SE variety, which features a 128-bit memory bus.

Bear in mind, too, Ross, that any card available in this price range will be useless for many upcoming games. Sure, such

IT'S 2004!

Happy new year! Have we all made resolutions? This year I've made three: firstly, I'm going to get all my Micro Mart copy in on time (I should point out that I also made this resolution last year - and broke it before the second week in January); secondly, I'm never, ever again going to volunteer to 'take a look' at relatives' broken PDs (I've been saying that for ten years); and thirdly. I'm finally going to throw out all that computer-related junk scattered all over the house (anyone want a couple of AT keyboards with missing keys, a totally-dead 21" monitor, or half a dozen 420Mb hard drives riddled with bad sectors?). For now, though, I wish you all a happy, healthy, and peaceful new year.

games will run, but the terrible frame rates will render them unplayable. If you're hoping to run Half-Life 2 or Doom 3 on a Radeon 9200 or a GeForce FX 5200, I advise you to dig out your old Bon Jovi albums - I mean, you're livin' on a prayer. For that kind of action, you'd need to add another £50 or so to your budget. That would put you in the realms of the Radeon 9600 Pro and the GeForce FX 5700.

Of course, if you're not into games, all of what I've said above is irrelevant. Stick with the card you've got - it's certain to be good enough. On the other hand, if fooling about with photographs or videos rings your bell, look no further than the Matrox Millennium G550. It's only got 32Mb of RAM (compared to 128Mb on the cards mentioned above) and it's now well over two years old, but for 20 image quality it's unrivalled. One of those will set you back about £70 - a little above your budget.



THE G550 - IN 2D, IT'S STILL UNTOUCHABLE



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ASK GORDON

WER CREATION PROGRAMS

I've currently got Broadband and I am very interested in the net. Would you know of any Web creation programs that are easy to use? I would like to set up my own web site. I have a very basic knowledge so a weekly tutorial would be great for me and many readers!

Many thanks

When I'm asked to recommend an easyto-use Web site package for beginners, I always recommend Namo Web Editor (in my opinion it is one of the easiest packages to use but it achieves this without compromising flexibility). Navigation bars are easily added and are updated automatically as you link your pages in an intuitive graphical tree structure. This is usually one of the most laborious and error-prone parts of a site design. You select one of over 200 themes, which alter the background, buttons etc and you can change the theme at any time. You just drag and drop images and objects and you can even easily add multimedia and database content. If you want to, you can also dive behind the scenes and get stuck into the HTML code. It is now at version 5.5 and costs around £60. Incidentally, if any readers have version 5.0, they can now upgrade to 5.5 free of charge from the Namo site.

In reply to your second question, I have written three series on HTML programming for beginners (the first in 1998 and the last in 2002). I will pass on your request to Simon and if there is enough interest, who knows? We may run another.

DOMAIN AND OUTLOOK

I've just registered a domain name which I get three POP3 Emails with. I've followed the instructions to set up the Email addresses in Outlook. I've put in the passwords and everything. But only one Email address works. If I send Emails to the others they get lost, what have I done wrong?

Matt Deacon

All I can think of is that you have only set one Email address up with your Email provider. Setting up the address in Outlook is half of the job. They provide you with three addresses but those addresses need to be set up on their mail server. Go into their control panel and add your other two addresses and everything should work. You may also find that you can set up an additional 'catch-all' address that will receive mail sent to other names at your domain.

FRAUD AND MISUSE

I know everyone is buying on line these days but is it now safe? I am still worried about credit card fraud and misuse.

John Ray

It is becoming a bit of a clichÈ these days when talking about on-line security, but I will ask the question anyway: 'When you hand your credit card to a waiter in a restaurant and he takes it into the back, how do you know what he does with it?' He could write down the details, make a copy, phone up and pay his bills...but you don't give that a second thought. Where there are people involved, there is always a risk. It someone the other end of modern wants to steal your card details, they will, just as a doddy waiter will.

However, if you are connected over a secure connection (more in a moment)," it is as secure as handing the card over yourself. In other words, no-one but the intended recipient can intercept your card details. Having said that, many on-line ordering systems, especially the bigger ones, use on-line authorisation. The card is immediately authorised by the bank and



By popular demand, a new expert joins the Micro Mart panel. Gord Hulmas has been writing for the magazine for several years already, and his areas of expertise include the Internet, web page creation and programming in general.

If you have any questions in any of these areas that you'd like Gordon to tackle, then simply write to him at:

Gordon Hulmes Micro Mart 1st Floor, Edward House, 92/93 Edward Street, Birmingham, B1 2RA.

Alternatively you can e-mail your questions to: gordon@micromart.co.uk

Please try to keep your queries brief and limit them to just one question per letter, and unfortunately, Gordon cannot reply to any queries personally. He will, however, answer as many as he can in this weekly space.

only the order details, not the card details are shown to the staff who will dispatch your order so it is totally secure.

Always ensure that you are connected over a secure connection. Look at the bottom bar of the browser and you should see a padlock symbol and in the address bar, you should see 'https:' instead of the usual 'http:'. Don't worry if you don't see these while you are entering your order but they should be there on the screen that you enter your personal details and card number. If you click on the padlock, you can view details of the site's certificate for extra reassurance. Some sites do use special Java encryption, which does not show the padlock in the browser and is just as safe but you will need to satisfy yourself that it is secure.





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SIMPLE_TIPS

This week, Brad Jackson looks at the cheaper end of the monitor market...

The current fashion in
Computerland is for those
wonderful TFT monitors, all

silver and black, and taking up hardly any space on a cluttered desk. They are desirable objects, and the high price of TFT monitors when compared to the same size CRT is due to the exacting quality control process - the manufacturers apparently throw away more units than they box up for delivery to retailers and customers. As usual in the land of computers, things start off very expensive, and then gradually as the technology improves, popularity increases, and prices begin to fall. One day, we shall all have 32" wide screen TFT monitors and see change from £50. A man has to dream, doesn't he?

My main point is that the majority of customers with a bit of cash are now demanding at least 15" or 17" TFT screens with their new computer. This benefits all of us who live a long way below their champagne lifestyle index, since the market is becoming saturated with unwanted – but perfectly functional – CRT monitors. Eventually, the CRT will disappear altogether, as consumer preference will dictate. Yet interestingly, in the meantime, we that require quality and reliability but don't want to spend too much in getting it are likely to benefit most in the short term. I shall explain.

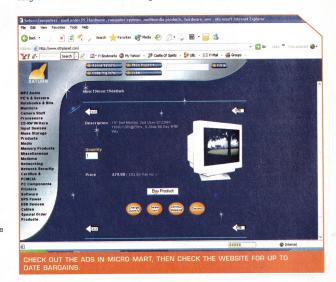
If you are a dedicated gamer, needing to have the latest of everything, and in abundance (to fully appreciate the gore as the alien disintegrates in a hail of hot lead), then you will already have the best monitor for your circumstances. Likewise, if you are regularly producing CAD charts and illustrations, then you will already have got the monitor that you require. Now, if you are just an average computer fiend (browsing the Internet, writing letters, sorting out accounts, listening to music,

playing the odd game occasionally) it does not matter too much what kind of monitor you have. Therefore, as the unpopular CRT monitors pop up in the adverts of refurbishing and 2nd user outlets (or even end-of-line but brand new) you can be ready to snap up the bargains.

What size, type, brand, and age of monitor you go for is not too important, although you will benefit from going up in screen size (15" to 17" to 19" to 21" etc). However, the following is some general advice that might help you in your search.

Firstly, if you are buying 2nd user, make sure that you clarify what condition the monitor is in (sometimes they are cheap due to a chip or mark on the screen) and sort out the warranty details. I was caught in a no-win situation when I bought

a 2nd user monitor for about £40 a year or so ago. I thought it was faulty, and the company when I called were very helpful and happy to exchange the faulty monitor for another one - so long as I sent the faulty one back at around £20 (they would pay to deliver the new one). Luckily, the fault was a Windows problem and easily corrected, but it did highlight the pitfall of RTB warranties on cheap old gear. Also remember that the warranty is usually of the order of 90 days. The good news is that I own two 2nd user 17" monitors: one for four years, and one for two years. They came with 90 day warranties, yet are still giving excellent service. Get settled down with an issue of Micro Mart and a coffee, and see if you can't replace that old 15" Smile monitor...



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QUESTIONS_&_ANSWERS

NIOS.VXD



Help! I own an IBM ThinkPad 560. It has no floppy or CD and I communicate with my main

PC by parallel lap link cable. The laptop was bought in untested condition on eBay with a broken screen. I repaired this and found it was an ex BT laptop that came with Win95.

Now the problem: The system says it is missing nios.vxd and when I click on properties to enable sharing the computer tells me there has been a fault with explorer. I was going to replace the 800MB hard drive with an IBM 1.3GB but the system says there is an I/O problem yet the laptop's diagnostics says everything is okay. I then tried, using an adapter, to format it on my Duron 1.1GHz Asrock motherboard with 1024MB RAM, yet the computer could not recognise it.

CG2646

SHARING BROADBAND



I have one PC that is using Windows XP and is connected to Telewest Broadband and

I would like to connect another PC up so that I can have two PCs sharing the internet at the same time (doing different things). Is this possible and if so what items do I need to buy to do this?

Paul Sony

THE DIFFERENCE



Could someone please describe the benefits of a Palamino cored 1900XP Athlon over a

normal 2000XP Athlon. I was sold one at a computer fair recently where the salesman was quite enthusiastic. I'm sure he started a few good reasons, or am I just another punter?

Steve Lindop

REFERENCE CDS



Can someone please assist me? I am looking for CDs for Windows XP to load onto my

PC that contain reference bumph (such as Guinness Book Of Records, Olympic records, football, cricket and all sporting records). Does anyone know of any publisher who specialises in this field, or have a phone number of a company who may be able to help?

Vic Ballard

PERFECTION SCANNER



I had a similar problem to the one experienced by Mike Berman (Micro Mart,

12/12/03,Page 81). My scanner, the Epson 1240U, would not work when I upgraded from 98 to XP although I had downloaded the latest drivers. While searching Epson's US Website I came across the following:

Note: Windows 2000 users - When you see the "Digital Signature Not Found", click "Yes". Windows XP users - When you see the "Hardware Warning" dialog, click "Continue Anyway". After doing this everything loaded perfectly and the scanner worked immediately. I trust it will do the same for Mike with his 2400.

Arthur Critchlev

With reference to Mike Berman's letter about his dismay with the Epson web site, has he tried to e-mail them via the help page. I have used that on several times and always had a helpful reply the next working day. So come on, give them a chance before rubbishing them!

Steve Thomas

The key to solving Mike Berman's problems with the Epson Perfection 2400 (Issue 778) can be found at the following:

If you've got a query you want to put direct to other readers, this is the place to do it! You might also find that where our experts draw a blank, you'll find your question on this page. And if you can help out with any of the questions here, please write in too! Our address is:

Questions & Answers Micro Mart 1st Floor, Edward House, 92/93 Edward Street, Birmingham, B1 2RA.

Or you can e-mail us: experts@micromart.co.uk

http://uk.newsoft.eu.com/ redir/other_all.asp

Having forked out a load of cash for the Epson Perfection 3200 earlier this year, I was annoyed to discover the lack of compatibility with WinXP Pro. An Epson representative said there no plans for new software to combat what he regarded as Microsoft's problem!

John Lloyd



TUTORIAL_GETTING STARTED WITH PAGEPLUS 5

This week we look at the other program from last issue's CD, PagePlus 5. Here, Joe Lavery uses the DTP package to put a newsletter together.

As I said last week, you don't necessarily have to use the latest software to produce quite professional results. It might take a bit longer but you'll find PagePlus 5 is a strong product that makes a good account of itself.

When you first launch the program you'll be asked if you want to open an existing project, start from scratch, or use a page wizard. I suggest for the first few sessions you choose the page wizard, which will go some way to preparing the document for you. It will also give you some idea of the scope of the product, because it provides a list of typical projects for you to choose from.

PAGE WIZARD

These are sub divided into a variety of different categories, so you should find something suitable for most occasions. Incidentally the pages created by these wizards are intended as a starting point (or template) for you to adjust and amend to suit your own purposes.

Because I have a passion for aircraft, I decided to create a newsletter announcing the last flight into my local airport of that aviation legend, Concorde. This is a fictional publication but the visit was real enough, and I have to admit to being one of the thousands who turned out on that sunny but very cold morning to see her. I used the page wizard choosing the all purpose newsletter template to base the design on. It's a basic 4 page layout with some rather garish colours, but as I said earlier it's nothing more than a starting point.

NEWSLETTER WIZARD

Once the wizard has done its magic you're presented with four pages containing



columns of dummy text, some headlines and sub headings. So the first thing to do is decide on a colour scheme (if the one offered is unsuitable) and a basic layout. With PagePlus it's easy to make these changes, you simply double click on any page element to launch an appropriate dialogue to move, resize or change the current object. In this case I chose a deeper blue for my page banner and a pale peach colour for the contrasting text and line breaks.

CREATE NEW COLOUR

For other adjustments you use the Change Bar, (top left of picture) which again is context sensitive, displaying different data depending on the currently selected object. You can also use guides to make sure your layout is uniform, these are added by clicking on the rulers around the screen.

Next I imported a new background picture for the heading, dropping the shading to 60% to give it a faded appearance and added a border using the line function in the graphics menu. Then the text font for the Airport Outlook logo was changed to something more suitable and I imported the main Concorde picture.



This is a large image that dominates the front page and to some extent sets the overall theme for the publication.

IMPORTING



You can flow text around graphics in PagePlus, which is why I faded the colour from one side of the Concorde picture, to make the text follow the shape of the aircraft.

This is fairly straightforward to do, particularly if you use the import wizard, which asks if you want text to wrap around the image. Initially the text will follow a default offset line created by the wizard, but you can adjust this to follow a specific



path, by adding more nodes and dragging them to any position you like.

NODE EDITING



This is a real time operation and the text will reformat as you work to suit the shape you've created. The page incorporates a few design elements that are commonly used in publishing, such as the sidebar down the left hand side and the image dropped into the gutter between the two lower columns. These and others you'll see in the predefined templates are well worth noting, because they are professionally created to give you a balanced page.

Although you can edit text directly on the page if you want to, the program has its own in-built text editor that includes a spell checker and if you've used one of the existing templates, will have a range



of text styles already defined. I liked the overall composition that PagePlus provided with this template but obviously the graphic at the bottom needs changing. A more suitable image would be an aerial photograph of the airport itself, (which I happen to have) that fits nicely into the lower corner of the page. As before a double click on the existing image tells PagePlus that you want to change this element, then using the import wizard you navigate to where the image is stored and import it. At this point you may need to edit the control nodes to reset the text flow offset around the image.

IMPORT PICTURE



To finish off this page I added a blue background to the subheading and created a logo to go in the corner of the large Concorde image. Once again PagePlus provides a built-in logo creator, which already has a couple of dozen examples for you to work with.

ADDING LOGO



Because this publication was created simply to show what could be done with PagePlus, I'm only going to use two pages. The superfluous pages are simply removed using the pages dialogue, where you can add, copy, or remove multiple pages in a single action (incidentally you can also add



pages using the navigation arrows at the bottom of the screen). The basic structure of page two is designed to complement the layout of the first page, with elements that follow a common theme.

Yet as before the colours and layout and not quite what I'm looking for. So using the portfolio panel down the left hand side of the screen, I pasted some of the lines and box structures from the first page. Then I removed the text sidebar and added a row of Concorde photographs right down the left side of the page.

PAGE TWO PART AMENDED



Then finally to finish it off, I replaced the two graphics that formed part of the original layout with two of my own photographs.

USING FONTS

I should also perhaps mention that modern DTP programs come with a wide range of font styles, however they should be used sparsely. It's very tempting to use lots of fonts simply to make your publications different, but if generally makes them look untidy and difficult to read. Like all effects they should be used sparingly to enhance your work, not become the main focal point.



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AMIGA_MART

Sven Harvey returns to conclude the Micro Mart Fair report, with details on the OS 4.0 demonstrations at the event.

The Micro Mart fair was the first mainstream UK for even worldwide?) event that the new Amiga platform has any kind of showing of note. Two user groups were represented at the event as Mick from SEAL (South Essex Amiga Link) and Carl (whom brought along the framed posters) of EMUG (East Midlands User Group) both brought AmigaOne XE G4 based machines with an early. Alpha development version of AmigaOS 4.0 installed on both machines. Mick was assisted in this endeavour by Rob, who is the editor of Total Amiga the Amiga fanzine produced by SEAL, the current and back issues of which were on sale. Carl's fellow EMUGer, Kev, was also assisting in Carl's general Amiga platform promotion as well as the OS 4.0 demonstration.

As setup was underway, a few dealers, whose eyes had been caught by the placing of posters with the Boing ball, approached the already set up AmigaOne machine of Carl's, which promptly booted so fast, that they realised just slow booting the systems they are used to are. To rub it in, Carl promptly just clicked the reset button after playing with workbench a little, proudly stating that shutting down the system is unnecessary as the machine came back up to Workbench in well under half a minute.

Though clearly, by Amiga OS standards, a bit buggy, the OS seemed very stable with only a couple of instances of system instability. However in these cases the Guru Meditation's replacement - the Grim Reaper - came into effect to halt the problem, and give a report on it. Of course the general stability did give rise to one or two quips about this development Alpha version of the OS being well within the quality control measures used for a certain market dominating OS!

The demonstrations seemed to go down very well with the odd Micro Mart Fair visitor enjoying a little play with



Photogenics, which works very well on OS 4.0, so long as the preferences file is deleted (a bit bizarre?), whilst others were simply mystified as to quite how such an early version of the OS could be working so well, especially being as close to real-time as it is already. Others were surprised to hear that these machines in front of them were in fact new Amiga hardware units, featuring a processor series they either hadn't heard of or thought were just the territory of the Mac.

Of course, nothing could last forever and in a spooky coincidence as the fair started to wind down the two machines demoing OS 4.0 decided to have a rest as some rogue error from the an Amiga PPC version of Guake unsettled Mick's OS 4 installation temporarily, whilst an inquisitive show-goer delived a little too deep into unfinished code on Carl's machine. which reminded us that this was, indeed an unfinished version (though it was easily forgotten) and put an end to the OS demos, for a little while anyway.

A few more people did indeed join the new Amiga revolution by getting their mits



on a new Amiga, even though it would be running PPC Linux for the time being. Of interest was the discovery that many visitors to the show are in reasonably advanced positions in IT, after being Amiga owners, and were more than interested in taking the plunge once the OS is out. It was, however, the general goodwill from the show-goers towards the format and the Amiga brand that was in evidence during the event that will be remembered by those on the stand.

WEBLINKS

- Amiga, Inc. http://www.amiga.com/
- EMUG http://www.os4.co.uk/
- Eyetech http://www.eyetech.co.uk/
- Stellar Dreams
 http://www.stellardreams.co.uk/
- South Essex Amiga Link http://www.seal-amiga.co.uk/

LINUX_MART

Martin Curran reveals a super easy, super slim way to point and click your way to audio bliss, as you casually torture your neighbours with Richard Clayderman's greatest hits

Here's the second easy graphical method to successfully rip your audio CDs. The beauty with this reclusive utility is that it has no heavy dependency on a full blown desktop you may not even use.

tkcOggRipper, for that is its unwieldy name, is a pretty much self-contained utility. So no point and klick (KDE), and no GNOME to 'grip' either. Basically no dependencies on any major system or desktop components. You don't even need the Qt libraries if you use the static version of the binary. However you'll still need the tiny cdparanoia and oggenc commands installed.

MOUSING AROUND

tkcOggRipper is a nice, simple, and more or less obscure utility that's well worth digging out and trying. It's billed by theKompany.com as an "Easy-to-use Ogg Vorbis Conversion Tool". It's a cross pletform app, so Windows and Mac users get to play too.

It's designed to spread the word about Ogg Vorbis by making it easy for users

at all. But if you can settle for a simple binary solution tkcOggRipper will fit the bill. The Kompany are the um, company behind tkcOggRipper (tkc from now on), and we've met them a good few times in past Linux Marts as long time readers may recall.

tkc is created by Oleksandr Yakovlyev. Shawn Gordon, head honcho at theKompany.com, also gets a credit. But hey you can read the 'About' tab yourself, so I won't labour the point! The 'About' tab is accessed under the 'Options' window - click on the cog icon on the far right at the top of the interface. It's worth browsing through the About text as it is informative enough and is the nearest you are going to get to a manual. But frankly the app is so simple to use it hardly needs one.

As it mentions the high quality setting of 6 works very well, but lower is fine too. Even half, which is the default setting of 'oggenc' anyway (i.e. 3. You can even use fractions, on the command line at least - 3.5, 3.75 and so on). You might be surprised how well the lower quality settings work, reducing file sizes even further. The default setting of 5 in tkc, on

TKCOGGRIPPER IS A NICE, SIMPLE, AND MORE OR LESS OBSCURE UTILITY THAT'S WELL WORTH DIGGING OUT AND TRYING

of any platform to create their own audio files compressed in the Ogg Vorbis format. It's nice in having very minimal dependencies. At the risk of repeating myself you will need the Qt libs, unless you use the static binary, and it does make use of cdparanoia and oggenc commands at least on Linux. I'm not sure how that works out on the other platforms.

One drawback is that it's not free in the strictest or truest sense, not just that it's non-GPL, but rather that their doesn't seem to be access to any source code the interface dial, should be more than adequate for most tracks, and if memory serves this equates to around 160kpbs.

It's a pity the code for tkc isn't available as I'm sure it would boost its popularity and meet the Kompany's objective of spreading the word about Ogg Vorbis with this easy to use encoder. But hey, it's their code so it's their choice. You can read a little more about tkc and other goodies here: http://www.thekompany.com

You'll need to hunt it down. Or use the following URL which will save any line



□ tkc	tkcOggRipp	er the Kompany.co
0		
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	Directories	
	M Information	
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wrap in this column as it's a longish URL: http://tinyurl.com/z9q6

From the above page you can follow a link to download the app itself. For your



convenience here's a direct and shortened URL which will also save your fingers: http://tinyurl.com/z9py

WALK THIS WAY

At the above download link you'll be presented with a directory listing, where you'll see all the pre-built packages for all the supported platforms. These include Windows 95/98/NT, Mac OS X, and naturally Linux. Where you have the joy of multiple RPM packages for Mandrake, Red Hat, and SUSE (used to be SuSE with a lower case 'u'. Companies eh? Mind you I guess you should spell it N-o-v-e-I-I now, given Novell's recent acquisiton of SUSE). The 'readme.txt' file also, and only, outlines the packages available.

I don't run any of the above distros so I made use of the static binary thoughtfully supplied. It's the file with the .app suffix. By using such a beast I didn't have to worry about any library dependency or version issues (which are only the Qt libraries in tkc's case anyway). Just download the app and run it, assuming it's already set as an executable.

Of course static binaries have potential issues best explored at a later date (inefficient memory use, stability issues, although I'm not 100% convinced about the extent of those complaints). No access to source code might be a problem in future, as Linux distros are updated and this utility isn't. You may also notice a utility called tkcRadio-vorbis listed on the download site, more on that sooner rather than later. If you don't fancy reading through the instructions below then by all means follow the pithy quote offered by

theKompany.com on their tkc web page, simply - "Pop in a CD, pick an output directory and select a "Quality" setting, and go."

That's all that's involved, but let's painfully drool our way around the interface anyway, even if it's true that theKompany, com have done such a nice job that it's really not needed, at least if you've any experience with computers.

As you can hopefully see from the screenshots there's a minimum number of icons and a generally uncluttered and functional interface. Each icon has a nice mouse-over feature that pop ups a little post-it note explaining its function. To soothe users of more mainstream platforms there's even a sickening "My Computer" label directly under the Directories tab. God I hate that.

It's as detestable as the word "hobby". All of the 'My this', 'My That'. Is it just me or is that a little demeaning and infantile? Like being five again and told to hold the big crayon properly. I mean who would use such labels on ANYTHING in the real world. My Shopping list, My Cheque Book, My Invoice. For pity's sake..

I know, I'm veering dangerously off-topic here, so let's apply a cool compress to my forehead and soldier on. After all tkc is intended as a cross-platform tool designed to encourage the use of Ogg Vorbis. So let's not dwell on trivial points, even if it does highlight a disturbing or perhaps plain lazy trend with modern GUI designers and their attitude to users.

Our step by step walk-through continues next week as the bottom of the page is once more reminding me I'm all out of space.









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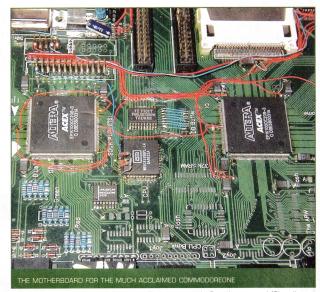
RETRO_MART

With 2003 now happily behind us, Shaun gazes ahead at what the next twelve months may have to offer.

All in all, 2003 was a good year for the retro scene as a whole. There seems to have been a move from retro computing being more than just collecting old machines to actually putting them to some use (I hope that Retro Mart played a part in that.) Take Adam Dunkle's custom-built Ethernet card, for instance. It made the news on many Internet sites and publications, some of which wouldn't have ever considered that such a thing could be possible from a "limited" machine, but it is as many of you know. 2003 also saw the start of retro events such as the ORSAM show and the JagFest which will hopefully become an established parts of the retro community for years to come. I know Gary Taylor and Nick Harlow are already planning for the second JagFest UK in 2004.

From a gaming point of view, Spectrum owners have not had it so good in years. thanks to the hard work of Cronosoft and others. I expect 2004 will see vet more releases for Sir Clive's rubber-keved wonder. The Commodore 64 has been a little guieter than usual on the games front, but we have still seen several solid releases. If the people at Commodore Scene have their way DOOM 64 (or a pretty close clone without instigating a legal battle) will finally see the light of day. We might even finally see Metal Dust at some point. One thing is for sure as yet another year opens its doors, and that's there's more software coming released for the C64.

Which brings me onto Ironstone Partners. I can't quite find out their big plan for the brand. I do know that they are considering it as an entertainment brand though, and that they have close contacts with Jeri Ellsworth who designed the CommodoreONE system to much acclaim. Ironstone are also trying to make in-roads to a slightly sceptical European scene. I'm told that they will be marking the C64's 22nd anniversary with an announcement in



January. Whatever happens here time will tell the tale eventually, and whether good or bad it will be yet another twist to the C64's legacy.

In most cases with regards to the retro community, timing doesn't often matter. It won't make much difference if you release a game in January or November as it will still be purchased by the same number of people. There is one exception though, and that is with regards to a professional publication, and the time feels right for it to happen. I only hope that it does, and it is done well, that is to say we don't end up with a 68 page magazine full of useless adverts, reviews of the classic games such as Elite and ill-informed writing. Perhaps this column could lay the foundations of such a publication as in Retro Mart Magazine. A nice, glossy cover with well written articles, some penned by

yours truly. Sounds go to me! (Okay, I'm dreaming here a little.)

Retro Mart has been an evolutionary venture for me. As I have made more and more contacts, and found out about other platforms, I have passed on the information through this page at every opportunity. There is definitely one thing is almost definite, and that is the end of February will mark this columns' second birthday. Who would have thought it? Certainly not me. I started this column on an eight-week trial basis thinking that it would be just that, and yet I'm still here collating all the latest news and views for your reading pleasure.

So, here is to a happy New Year for us all. One that I'm sure will be full of surprises, and yet for some of us, as predictable as the machines we use and love.











SYSTEM_BUILDER

This week, Louis rounds up a few questions, and then talks power..

In a matter of days, it seems my week has been enveloped by one of the worst colds that I have ever had the misfortune to catch. This has had two effects. The first is that I have spent less time in front of the computer and the second is that I have imbibed quite a lot of the Old Janx Spirit. So please forgive me if this column seems a little disjointed (hic).

So where was I? Oh yes, the column. Well this week I've been having a look at a couple of queries that have been raised by people I talked to at the Micro Mart Computer Fair.

The first is from a gentleman that wanted some details on how to read the Nexcom NX-MS-002 memory card that he received with his Trust digital camera. I'm sorry to say that I was unable to find anything specific on the camera, or

new graphics chipset from XGI, the Volari. Well, it seems that there might be a spanner in the works as the company has as yet been unable to produce a fully working set of drivers. This is a problem that all graphics card manufacturers seem to suffer from at one time or another and the bitter truth is that this can have a massive effect on future sales. I hope that in this case it is just a glitch, as the card seems to be a genuine competitor for the two current market leaders. I'll keep you all updated as I learn more.

POWER

At the risk of annoying Jason, who is actually a nice guy, I'd like to once more draw your attention back to the problems caused by using an underpowered power supply. It's a question I was asked at

I'D LIKE TO ONCE MORE DRAW YOUR ATTENTION BACK TO THE PROBLEMS CAUSED BY USING AN UNDERPOWERED POWER SUPPLY.

its memory card, but I would suggest that it might be worth contacting the manufacturer on their support line,

http://www.trust.com/products/ themes/digitalcameras/, and then selecting the customer care link on the left. You'll have to register your product, but they should be quick to respond to any queries you might have.

Secondly, a customer asked me where he might be able to get hold of the ATI 9200 ViVo graphics card, which I mentioned a few weeks ago. The answer is www.overclockers.co.uk, also known as OcUK.

XGI NEWS

Now, you might remember that a very short time ago I introduced you to the

the recent Micro Mart Fair and so I will elaborate once again.

Using an underpowered PSU can have either one or both of the following effects.

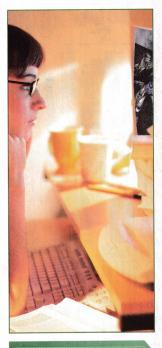
These are:

- Voltage supply instability, where the voltage to individual devices fluctuates too wildly or outside the parameters set for that device. If this happens the device can start causing system instability issues, resets and could eventually fail.
- 2. Overheating, where the current needed to power the components within a PC causes the PSU to work too hard. As most recent PSUs contain some sort of thermal cut-out, then this will cause the PC to shut off abruptly which causes

resets, total system failure and loss of data.

I'll be doing a table in the next few weeks in which I will be explaining what level of PSU I recommend for powering various mixes of components.

That's it for this week, except to wish everyone a happy new year. Er, Happy New Year!



AND FINALLY

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486_MART

Gordon Hulmes returns with more ways to make the most of your older machines.

For the last two weeks I have been introducing the idea of using an old 486 to create an in-car MP3 player. The advantage of this, even in view of the fact that personal MP3 players are now so affordable and in-car MP3 players starting to appear, is that it is almost free.

Last week I talked about the hardware that you need, in addition to the PC itself. The biggest purchase (from about £20) will be a power inverter to convert the car's 12V supply to a household 23OV supply. This week, in the final part of this project, I want to look at the software - the operating system and the player itself. Next week, as this project is too detailed for this column, I will provide some links to some excellent projects with good detailed instructions before moving on to another 486-based idea.

OPERATING SYSTEM

You basically have a choice of three here (counting the various versions of Windows as one)...DOS, Windows and Linux. Let's look at each one in turn.

DOS

DOS is such an incredibly simple operating system that there is little to say about it. The advantage is that it is lightweight, boots almost instantaneously and is easy to administer (mainly because it is so limited though). On the downside, it is restricted both in terms of available software and expandability. As well as only being able to run one application at once - so you can't have anything else running at the same time as the MP3 player - its display is also limited so if you may decide to add a flat panel display later, DOS is not a good choice.

WINDOWS

Windows will be familiar to most of us, and for this it scores points. However, your 486 is likely to have Windows 95 installed - or worse, Windows 3.11. If it's the latter, forget it, get another operating system. If you have 95, you can get by but 98 will serve you better, but it will cost you. Windows can obviously run more than one application at once, as long as the 486 is up to the job. The disadvantage for an incar MP3 player though are the slow boot time and the bulk of the operating system for such a simply task.

LINUX

Linux is the choice of most in-car PC enthusiasts. As well as being equally configurable as Windows, the operating system can be made to be as lightweight as you require - only including the required bits. It can also be purely command-line based like DOS or include a graphical interface with a range of skins so good that they make Windows look clunky. There is even a ready made custom version of Linux called CMMS, especially made for building car MP3 players, with an integral MP3 player. Get it at http:// cmms.sourceforge.net The choice of operating system will come down to a combination of your current equipment and any operating system you already have plus your own skill and what you want from the project.

THE PLAYERS

DOS - MPXPLAY

Mpxplay is a DOS based (32-bit) audio player. It requires a 486 DX4-100 or above and DOS 5.0 or higher (or Windows



95/98 DOS window). This is a fully featured and very popular player. See the VVeb site http://mpxplay.cjb.net/ for more details and various links to car MP3 projects that use it.

WINDOWS - WINAMP

For Windows, there really is no competition. Winamp, from Nullsoft [www.winamp.com] is the choice of most for the Windows platform. It is now freeware (it used to be shareware). It needs a fast 486 although a Pentium is recommended and it runs on Windows 95, 98, 2000. Winamp's modular design and thousands of skins means you are likely to want to quickly upgrade to a flat panel screen although a plugin to use a simply LOD display is available from http://www.marküszehnder.ch/projects/lcdplugin/

LINUX

As well as the integral OS and player, CMMS, Giantdisc (uses a Palm PDA as a remote control to the PC-based - a Pentium is recommended - system. Time's up for this week, some real-life project links coming next week.

OVERCLOCKING

Mark Pickavance brings you computing on the edge as usual, for those interested in overclocking.

Before I dive into the techie stuff, I'd just like to say how nice it was to meet so many people who attended the Micro Mart fair. Some of the questions you asked weere really interesting, even if they did give me headache. Here's a review, and then some news.

UPGRADEWARE XP-TMC

Last month I reviewed the Speed Strip, a simple device with unlocked Athlon processors. This time around I've got something which does a similar job, but in a more complex way, the XP-TMC.

This ingenious gadget is a block the same size as the CPU which fits between the processor and the socket, allowing totally control over the clock settings. To use it you simply insert the CPU into the XP-TMC and using five small dips on the underside set the clock multiplier you want. Then you place the whole assembly into the socket and attach the heatsink. The last part is a little tricky because the CPU is now about 5mm higher than it normally would be.

This solution comes in two variants, and I tested both. The first gives you two small metal brackets which create hooks for the cooler to attach normally. The other, more expensive and to my mind a better solution provides a modified cooler with a longer clip mechanism. Either way you can get the CPU back on and cooled.

Once in position at the next boot the CPU will show the ratio you decided on, anything from 5x to 24x. This is irrespective of what controls your BIOS has, so overclocking on boards not designed for that purpose is possible. Using the XP-TMC I was able to take a standard 2400+ Thoroughbred XP and down ration it from 15 to 10x, then increase the FSB from 133MHz to 200MHz to compensate. So the chip was





THIS COULD SAVE LOTS OF PEOPLE FROM UPGRADING A MOTHERBOARD THEY ARE HAPPY WITH.

running at the same 2GHz clock speed - but the RAM was now banging along at 400 not the 266 it previously ran at. No difference to CPU numbers but a clear 50% increase on memory bandwidth.

Changing this to 12x increased both CPU and memory speeds, and the chip was well capable of handling it. Another way it can be used it to take a Barton cored CPU designed to run at 200MHz with a 12 clock, and make it run on a board that only supports 133Mhz but at say 18x. This could save lots of people from upgrading a motherboard they are happy with.

So how does this compare to the Speed Strip? As I've said already it doesn't need BIOS control of the clock, in fact one trick they missed was allowing an option for that. So rather annoyingly any changes need you to disassemble the cooler and

get under the chip. I wished they had worked out a way of putting the dips somewhere more accessible. The other place where the Speed Strip wins is that this isn't easy to remove once the CPU is mated with it. The ZIIF (Zero Insertion Force) socket they use grips the chip tightly once fully inserted.

Getting them apart is at best a delicate procedure and at worst a potential pin bender. My recommendation is that you once you go with this that you leave the chip attached to it permanently, as any attempt to remove it could be fatal for the XP. Or at best you could end up with some bent pins.

This is an effective and comprehensive way to unlock any XP processor, but it could have been better thought out. Having said that this is by far the easiest way set the multiplier on an

Athlon, and could be used by the most inexperienced overclocker.

Prices are expected to be around £20 for the basic model, and £30 for the one which includes the cooler.

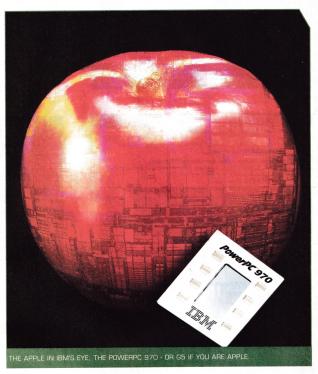
EXTRA EXTREME EDITION

News comes to me that Intel intend to launch a new version of the Pentium 4 Extreme Edition rated at 3.4GHz. For those unaware, the 'Extreme Edition' is actually a butchered Xeon with a 2MB cache reworked to function on socket 478. The end result of Intel's tinkering is the quickest P4 yet available, and it arrived exactly same time that AMD launched the Athlon 64. I say 'launched' because unless you are Dell or some other company with a very strong Intel relationship you still can't get these chips! Most suppliers have avoided them so far on the basis that they can't really base a product line on less than the 10 chips they have.

The list price in volume for the 3.2GHz P4 EE is a whopping \$925, and the new model will be a plump \$999. While the descent of the dollar in recent times, makes this slightly less painful it's still a staggering amount of money to say you have the fastest P4. I'm off to see Intel soon, so I'm sure they will tell me more about when the 3.4GHz EE will hit the shelves, and maybe when the 3.2GHz will be more widely available. Or maybe they will point me at a Dell representative, who will tell me there are plenty in his warehouse.

APPLE GETS CHOPPED

You may have noticed in recent weeks that we have thankfully been spared the dulcet tones of Jeff Goldbum telling us that the Apple G5 is "the world's fastest, most powerful personal computer". This is because a number of people complained to the ITC and they determined that "the G5 was generally as fast as the best Intel-based workstations currently available". Based on the one I've seen which had an NVIDIA FXS2OD in it, I think they were being sympathetic to Apple in this determination. Which isn't exactly what Jeff was telling us, and he



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should know since he used a Powerbook to send a virus into an alien computer in Independence Day!

Irrespective of Apple's tendency to overplay its hand here many people think the PowerPC G5 (IBM 970) processor is quite a neat processor, not least IBM who make it. It has been recently announced that it is they, not Intel will be providing the main CPU along with all for graphics in the second generation XBOX for Microsoft.

That would suggest that the next XBOX would be based on this chip, and not anything XB6 in nature. The only slight snag with this plan is that in an ideal world the console would be backwardly

compatible with the original XBOX, which might be more difficult with such a rapidly different chip. The other possibility is that IBM would license the Athlon 64 from AMD, and make a derivative version for the XBOX 2. Either possibility makes an interesting proposition.

I can't think of anything more likely to make Steve Jobs choke on his breakfast than to discover that Microsoft has launched what potentially might be a G5 clone. Except perhaps the notion that IBM might not use its own technology in favour of the AMD G4 bit processor, which presumably Apple declined for the 970 PowerPC. If I were Steve, I wouldn't worry too much - as Pixar are doing great.











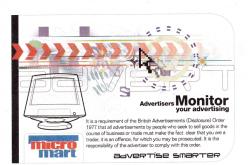


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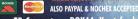
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Capricorn Beige Midi (4x5.25,2x3.5,350W PSU)		_£33.6
ATX Desktop Case w/300W PSU	£34.67	£40.73
Black Lava Case - Lava Front - 350W PSU		_£50.13
Silver Lava Case - Lava Front - 350W PSU		
Black Sagittarius - Clear Perspex Front - 400W PSU	J £36.00	£42.31
Silver Sagittarius - Clear Perspex Front - 400W PSI	J £36.00	£42.31
Beige Sagittarius - Clear Perspex Front - 400W PSI	J £36.00	£42.31
350 Watt ATX PSU (P4 comp. & AMD Approved)		£11.7
400 Watt ATX PSU (P4 comp. & AMD Approved)	£11.43	£13.4
Mentor True 300W PSU (CE,TUV,PFC)		£23.9
Mentor True 400W PSU (CE,TUV,PFC)		
Antor 490 Watt DCII with Rhua LED's	f70 44	f82.7

Antec 480 Watt PSU with Blue LED's.. Antec 550 Watt PSU with Dual Fans.. ...£95.83£112.59 **Case Modding** Accessories

	exc.VAT	inc.VAT
30CM Cold Cathode (Blue/Green/Red/UV)	f6.62	£7.78
80MM Case Fan with LED's (Multi /Blue)	f8.53	£10.03
150CM Neon String Kit (Blue/Green/Red)	f8.13	£9.56
Liquid Cold Cathode (Blue/Green/Red)	£15.56	£18.28
5.25° Multi Function Super Panel	£29.53	£34.70
3.5" Rheo Bus Fan Speed Aduster - Blue	£13.33	£15.67
Compunurse Digital Thermometer		£9.71
Flex-Pad Accoustic Insulation Pads	£5.31	£6.24
45CM Round FDD Cable (Blue/Red/Green/Yellow)	/Silver)£2.38	£2.79
48CM Round UDMA133 (Blue/Red/Green/Yellow)	Silver)£3.71.	£4.36
90CM Round UDMA133 (Blue/Red/Green/Yellow)	Silver)£4.89.	£5.74

Fax / Modems & ISDN Adaptors

	exc.VAT	inc.VA
56.6K PCMCIA Fax. Modems	£24.67	£28.9
56.6K PCI Hardware Fax/Modem (Ambient)	£6.87	£8.0
56.6K PCI Hardware Fax/Modem (Connexant)	£9.33	£10.9
56.6k External Serial Fax/Modem	£20.13	£23.6
56.6K External USB Fax/Modem	£15.87	£18.6
PCI ISDN Terminal Adaptor (128Kbps)	£12.60	£14.8
USB ISDN Terminal Adaptor	£24.00	£28.2

Floppy Drives, Hard Drives, & Zip Drives

	exc.VAT inc.VAT
3.5" 1.44Mb Floppy Disk Drive	£5.93£6.97
3.5" 1.44Mb Floppy Disk Drive (Black Facia)	£8.11£9.53
3.5" 1.44Mb External USB FloppyDisk Drive	£29.33£34.47
40Gb 5400 UDMA100 Hard Disk Drive	
40Gb 7200 UDMA100 Hard Disk Drive	_£35.42£41.62
60Gb 5400 UDMA100 Hard Disk Drive	
80Gb 7200 UDMA100 Hard Disk Drive	
120Gb 5400UDMA100 Hard Disk Drive	
120Gb 7200UDMA100 Hard Disk Drive	
160Gb 7200UDMA100 Hard Disk Drive	£73.12£85.92
200Gb 7200UDMA100 Hard Disk Drive	.£107.11£125.86
250Gb 7200UDMA100 Hard Disk Drive	_£155.33£182.52
40Gb 7200 UDMA100 Hard Disk Drive with 8Mb Buffer	£42.08£49.44
80Gb 7200 UDMA100 Hard Disk Drive with 8MB Buffer	
120Gb 7200UDMA100 Hard Disk Drive with 8Mb Buffer	
160Gb 7200UDMA100 Hard Disk Drive with 8Mb Buffer	£81.93£96.27
200Gb 7200UDMA100 Hard Disk Drive with 8Mb Buffer	
250Gb 7200UDMA100 Hard Disk Drive with 8Mb Buffer	
80Gb Serial-ATA Hard Drive, 7200rpm 8Mb Buffer	£55.29£64.96

100	AMD Duron/Athlon Motherboard	s												_	
NT.	Asrock K7VT2	VIA KM266	266	DDR/SDR	2/2	Y	Y	N	N	N	4x	5	1.1	£21.36	£25.10
19	Asrock K7VM2	VIA KM266	266	DDR266	2	Y	Y	N	N	Y	4x	. 2	2.0	£26.93	£31.64
11	Asrock K7VM4	VIA KM400	333	DDR333	2	Y	Y	N	N	Y	8x	3	2.0	£33.64	£39.52
9	Asrock K7S8X R3.0	SiS746FX	333	DDR400	3	Y	Y	N	N	N	8x	6	2.0	£22.27	£26.17
11	Asrock K7S8X-E	SiS746F	400	DDR400	3	Y	Y	N	N	N	8x	6	2.0	£27.84	£32.71
п	Asus A7N8X Deluxe	nForce2	400	DDR400	3	Y	Y(2)	Y	Y	N	8x	5	2.0	£78.41	£92.13
1		VIA KT400	333	DDR400	3	Ý	Υ Υ	N	N	N.	8x	6	2.0	£41.50	£48.76
2	Asus A7V8X-X-Lan	nForce2 Ultra	400	DDR400	4	Ý	Ý	N	N	N	8x	5	2.0	£57.05	£67.03
1	Gigabyte GA-7N400-L		400	DDR400	4	ı,	Ý	Y	l Ÿ	l N	8x	5	2.0	£77.10	£90.60
8	Gigabyte GA -7N400-Pro2	nForce2 Ultra	400	DDR400	3	Ý	Ý	N	N	l N	8x	5	2.0	£44.15	£51.87
ĭ	Gigabyte GA-7VT600-L	VIA KT601			3	Y	Ý	V	Y	N N	8x	5	2.0	£55.11	£64.76
7	Gigabyte GA-7VT600 1394	VIA KT400	333	DDR400		l v	N	N	N	N	4x	5	1.1	£33.52	£39.39
В	Gigabyte GA-7DXE	AMD 760	266	DDR266	3				N	N	8x	5	2.0	£41.25	£48.47
7	Gigabyte GA-7VA	VIA KT400	333	DDR400	3	Y	N	N		Y	4x	3	2.0	£38.81	£45.60
3	Gigabyte GA-7VKMPP	VIA KM266	266	DDR266	2	Y	Y	N	N		8x	5	2.0	£49.85	£58.58
4	Microstar K7N2 Delta-L	nForce2	400	DDR400	3	Y	Y	N	N	N					
7	Microstar K7N2 Delta-ILSR	nForce2	400	DDR400	3	Y	Y	Y	Y	N	8x .	5	2.0	£70.45	£82.78
3	Microstar KM4M-L	VIA KM400	333	DDR333	2	Y	Y	N	N	Y	8x	3	2.0	£37.50	£44.06
3	Microstar KT4AV-L	VIA KT400	333	DDR333	3	Y	Y	N	N	N	8x	6	2.0	£42.05	£49.40
7	Microstar 746F Ultra-L	SIS 746FX	333	DDR400	3	Y	Y	N	N	N	8x	. 5	2.0	£48.86	£57.41
9	Microstar K7N2G-L	nForce2	333	DDR400	3	Y	Y	N	N	Y	8x	5	2.0	£64.77	£76.11
6	Microstar KT6 Delta-LSR	VIA KT600	400	DDR400	3	Y	Y	Y	N	N	8x	5	2.0	£52.27	£61.42
ŏ	Microstar KT6 Delta-FISR	VIA KT600	400	DDR400	3	Y	Y	Y	Y	N	8x	5	2.0	£62.50	£73.44
8	AMD Opteron MotherBoards	•													
6	Microstar K8D-Master-F (Dual CPU)	AMD 8130	400	DDR400	6	Y	Y	Y	Y	Y	8x	5	2.0	£309.49	£363.65
	Microstar K8D-Master-FT (Dual CPU		400	DDR400	6	Y	Y	Y	. Y	Y	8x	1 (64Bit)	2.0	£309.49	£363.65
8	Intel Pentium 4 Motherboards	,													
ı.	Asrock P4I45D	Intel 845D	533	DDR/SDR	2/2	Y	Y	N	N	N	4x	5	2.0	£31.25	£36.72
T	Asrock GE Pro-HT	SiS651	533	DDR/SDR	2/2	Y	Y	N	N	Y	4x	3	2.0	£31.82	£37.39
4	Asus P4S8X-X-Lan	SiS648+963	533	DDR333	3	Ý	Ý	N	N	N	8x	6	2.0	£41.80	£49.11
7	Asus P4G8X Deluxe	Intel E7205	533	DDR333	3	Ý	1 Gia	N	N	l N	8x	6	2.0	£82.81	£97.30
7	Asus P4PE/F/SATA/GD	Intel 845PE	533	DDR333	3	Ý	Y	Y	l v	N	8x	6	2.0	269.63	£81.81
6	Asus P4S533-MX	SiS645DX	533	DDR333	4	Ý	Ý	N	N	N	4x	6	2.0	£40.24	£47.28
0		Intel 875	800	DDR400	4	Y	Y Gig	N	N	N	8x	5	2.0	£112.22	
0 5	Asus P4C800		800	DDR400	6	Y	1 Gig	Y	l N	l N	8x	5	2.0	£239.77	£281.73
5	Gigabyte GA-8KNXP Ultra	Intel 875P						Y	Y	N	8x	5	2.0	£138.64	
98	Gigabyte GA-8KNXP	Intel 875P	800	DDR400	6	y Y	1 Gig	Ý	l ,	l N	8x	5	2.0	£86.42	£101.54
ii.	Gigabyte GA-8IK1100	Intel 875P	800	DDR400	6				Y	N N	8x	5	2.0	£124.45	
8	Gigabyte GA-8PENXP	Intel 865PE	800	DDR400	6	Y	1Gig	Y		l N		5	2.0	£67.61	£79.45
8	Gigabyte GA-8IG1000	Intel 865G	800	DDR400	4	Y	N	Y	N		8x				
Œ.	Gigabyte GA-8IG1000 Pro	Intel 865G	800	DDR400	4	Y	Y	Y	Y	Y	8x	5	2.0	£76.14	£89.46
2	Gigabyte GA-8IP900	Intel 865P	533	DDR333	4	Y	N	Y	N	N	8x	5	2.0	£54.58	£64.13
8	Gigabyte GA-8SQ800	SIS655+963	533	DDR400	4	Y	N	N	Y	N	8x	5	2.0	£50.22	£59.00
8	Gigabyte GA-8SQ800 Ultra	SIS655+963	533	DDR400	4	Y	Y	Y	Y	N	8x	5	2.0	£80.78	£94.92
8	Gigabyte GA-8S648L	SiS648	533	DDR333	3	Y	Y	N	N	N	8x	5	2.0	£38.48	£45.21
3	Gigabyte GA-8SIMLH-P	SiS651+962L	533	DDR333	2	Y	Y	N	N	Y	4x	3	2.0	£42.93	£50.44
3	Gigabyte GA-8IG1000MK	Intel865G	800	DDR400	4	Y	Y	Y	N	Y	8x	3	2.0	£67.68	£79.53
3	Microstar 651ML	SiS651+962L	533	DDR333	2	Y	Y	N	N	Y	4x	3	2.0	£43.18	£50.74
0	Microstar 648 Max-VL	SiS648	533	DDR	3	Y	Y	N	N	N	8x	6	2.0	£38.64	£45.40
0	Microstar 845PE Max-L	Intel845PE	533	DDR333	2	Y	Y	N	N	N	4x	5	2.0	£46.59	£54.74
5	Microstar 875P Neo-FIS2R	Intel 875P	800	DDR400	4	Y	1 Gig	Y	Y	N	8x	5	2.0	£112.50	£132.19
3															
7	120Gb Serial-ATA Hard Drive 7200rpm 8Mb 8			Logitech MXS	00 Optical Mo	ouse (USB)		£26.46	£31.09	GeForce FX520					
8	160Gb Serial-ATA Hard Drive 7200rpm 8Mb 8			Logitech MX7						GeForce FX520	0 8x AGP 12	8Mb TV-Out	DVI	£54.44	£63.97
7	250Gb Serial-ATA Hard Drive 7200rpm 8Mb 8			Logitech Pilot	Wheel Mouse	Optical		£12.87	£15.12	GeForce FX560	0 8x AGP 12	8Mb Person	al Cinen	na£95.56	£112.28
9	WD 37.6Gb / Serial-ATA HDD 10,000rpm 8Mb	Butfer £79.64	£93.58	Logitech Delu	ixe Access Key	poard (PS2).	0-1	d\.\ta	£11.46	GeForce FX560 GeForce FX560	ONT OF ACE	126MD IV-U	ut DVI	L/3.3b	£102.14
16	WD 74Gb / Serial-ATA HDD 10,000rpm 8Mb 8			Logitech Inte	met Navigator	NB PSZ/USE	Beige	(17.31	C2C 70	GeForce FX590	0 1 20 TV.O.	230MB, 1946 + DM	Jut, DVI	£144.00	£169.30
13	Serial-ATA Hard Drive Power Adaptor			Logitech Intel Logitech Intel	met Navigator	UEW UNFIT	(P34/USB	£22.6U	£9.77	GoForce FY595	0.11ltra 256 !	ViVo TV-Out	DVI	£296.67	£348.58
100	Lain-Li RH58 Removable HDD Caddy (UDMA Economy Removable HDD Caddy (UDMA13)			Logitech Intel	met Keyboard	OEM (Black)	· · · · · · · · · · · · · · · · · · ·	£8.31	f9 77	GeForce? My-4	00 64Mh PC	, 17-0ut	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	£24.44	£28.72
1	250Mb Internal IDE ZIP Drive Inc Software.	£43.07	£50.61	Logitech Core	lless Deskton	OFM (Black)		£20.48	£24.06	GeForce2 Mx-4 GeForce4 Mx44	IO 64Mb DD	R PCI		£33.89	£39.82
AT	250Mb External 7ID Drive Inc Software.	£45.07 £64.61	£75.02	Logitech Core	floce Dackton	OFM (White)		F20.48	£24.06						

120Gb Serial-ATA Hard Drive 7200rpm 8Mb Buffer£67.56£79.38	
160Gb Serial-ATA Hard Drive 7200rpm 8Mb Buffer£90.91£106.82	
250Gb Serial-ATA Hard Drive 7200rpm 8Mb Buffer£169.56£199.23	
WD 37.6Gb / Serial-ATA HDD 10.000rpm 8Mb Buffer £79.64£93.58	
WD 74Gb / Serial-ATA HDD 10,000rpm 8Mb Buffer £183.15£215.20	
Serial-ATA Hard Drive Power Adaptor£2.00£2.35	
Lain-Li RH58 Removable HDD Caddy (UDMA133)£24.36£28.62	
Economy Removable HDD Caddy (UDMA133)	
250Mb Internal IDE ZIP Drive Inc Software£43.07£50.61	
250Mb External ZIP Drive Inc Software	
750Mb Internal IDE ZIP Inc Software£55.68£65.43	
750Mb External USB2 ZIP Drive Starter Kit£91.95£108.05	
750Mb External IEEE1394 ZIP Driver Starter Kit£93.13£109.42	
100Mb ZIP Disks (PC Formatted)£5.99£7.04	
250Mb ZIP Disks (PC Formatted)£6.60£7.76	
750Mb ZIP Disks (PC/MAC Formatted)	

AMD Duron/Athlon Motherboards

ADSL/DSL/	Cable
Broadband	1
4	exc.VAT inc.VAT
ADSL Internal PCI Adaptor (Connexant Chipset)	£24.00£28.20
	f26.67f31.33
ADSI Microfilter	£1.98£2.33
OSL/Cable Router with intergrated 4 Port Switch	f26.00f30.55
ADSL Router with 1x 10/100 Port & Modem	£38.40£45.12
ADSL Router with intergrated ADSL Modem & 4 Port Switch	£49.40£58.04
Co. William	C-0.1

ADSL Router with intergrated ADSL Modem & 4 Port Switch	£49.40	£58.04
Keyboards	& Mic	e
	exc.VAT	
Tsunami PS/2 Keyboard	f3.33	£3.92
Tsunami PS/2 2-Button Wheel Mouse	f2.20	f2.59
Mentor PS/2 2-Button optical Wheel Mouse	f8.44	f9.92
Tsunami Keyboard/Mouse/Speaker Set (Blue Black or white)	£7.67	£9.01
Memorex Wireless Keyboard & Mouse Bundle	f12.97	£15.24
Microsoft Internet Keyboard PS/2	£12.59	£14.79
Microsoft Multmedia Keyboard PS/2	f22.21	£26.10
Microsoft Natural Multimedia Keyhoard PS/2	f29.33	f34.47
Microsoft Office Keyboard PS/2-USB	f25.16	£29.56
Microsoft Office Keyboard PS/2-USB	£11.96	£14.05
MS Wheel Mouse Optical OEM	£10.40	£12.22
MS Intellimouse Explorer Optical (PS2/USB)	£29.60	£34.78
MS Intellimouse Explorer Optical Bluetooth	£58.05	£68.21
MS Intellimouse Explorer Wireless USB	f38.49	£45.23
MS Ontical Mouse Blue PS2/USB	f19.39	£22.78
MS White Wireless Optical Mouse PS2/USB	£29.77	£34.98
MS Blue Wireless Optical Mouse PS2/USB	£29.77	£34.98
MS Trackball Explorer PS2/USB	£30.87	£36.27
MS Trackball Optical PS2/USB	£26.13	£30.71
MS Cordless Desktop PS2	£38.39	£45.10
MS Wireless Optical Desttop S/Edition White	£59.35	£69.73
MS Wireless Optical Desktop	£48.53	£57.02
MS Wireless Optical Dessktop PRO (USB/Ergo)	£69.11	£81.20
MS Wireless Optical Desktop Bluetooth	£94.44	.£110.96
Logitech MX310 Optical Mouse (USB)	£23.40	£27.50

DDR400	4	'		1 Gig	Y	Y	
Logitech MXS	in Ontical I	Mouse (U	SB)		£26.46	£31.09	
Logitech MX7					£39.74	£46.70	
Logitech Pilot					£12.87	£15.12	
Logitech Delu					.£9.76	£11.46	
Logitech Inter	met Navigat	or K/B PS	2/USB E	leige	£17.31	£20.34	
Logitech Inter	met Navigat	or K/B SE	Black F	SZ/USB.	£22.80	£26.79	
Logitech Inter	rnet Kevboa	rd OEM ()	White)		£8.31	£9.77	
Logitech Inte	met Keyboa	rd OEM (Black)		£8.31	£9.77	
Logitech Coro	lless Deskto	o OEM (B	lack)		£20.48	£24.06	
Logitech Cord	lless Deskto	D OEM (V	Vhite)		£20.48	£24.06	
Logitech Coro					£32.68	£38.40	
Logitech Cord	lless Deskto	p Deluxe	Optical	USB	£43.78	£51.44	
Logitech Coro					£65.36	£76.79	
Logitech Cord	lless Deskto	p Opitcal	MX US	В	.£65.36	£76.79	

Memory AIRAM	we stock is Major on 3rd
	exc.VAT inc.VAT
All RAM we stock is Major on 3rd	
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256Mb PC100 Dimm	£38.61£45.37
128MB PC133 Dimm	f20.17f23.70
256Mb PC133 Dimm	£38.61£45.37
512Mb PC133 Dimm	£63.33£74.42
128Mb SODIMM 144-Pin 3.3v PC100/133	
256Mb SODIMM 144-Pin 3.3v PC100/133	£35.56£41.78
512Mb SODIMM 144-Pin 3.3v PC100/133	£70.00£82.25
128Mb SODIMM DDR266 PC2100	£15.56£18.28
256Mb SODIMM DDR266 PC2100	f26.11f30.68
512Mb SODIMM DDR266 PC2100	£60.00£70.50
256Mb DDR266 Dimm 2.5v PC2100	f22.43f26.36
512Mb DDR266 Dimm 2.5v PC2100	£47.78£56.14
256Mb DDR333 Dimm 2.5v PC2700	f23.89f28.07
512Mb DDR333 Dimm 2.5v PC2700	£46.61£54.77
256Mb DDR400 Dimm 2.5v PC3200	£24.72£29.05
512Mb DDR400 Dimm 2.5v PC3200	£47.71£56.06
128Mb RDRAM Rambus 800Mhz	£31.11£36.56
256Mb RDRAM Rambus 800Mbz	

256Mb RDRAM Rambus 800Mhz	
Graphics Card excVAT inc.VAT	Flat Bed S
All Badron 2000 64 SNR Daul Heads TV out . 223.8 27.24 All Radron 2000 128Mb ORA 667 . 1227.5 123.75 All Radron 2000 128Mb ORA 667 . 1473.3 155.62 All Radron 2001 128Mb DOR A67 . 1473.3 155.62 All Radron 2001 128Mb DOR A67 . 1473.2 155.75 All Radron 2001 128Mb DOR A67 . 1472.2 1672.1 All Radron 2001 128Mb DOR A67 . 1472.2 1672.1 All Radron 2001 128Mb DOR A67 . 1472.2 1672.6 All Radron 2000 128Mb DOR A67 . 1472.2 1672.6 All Radron 2000 128Mb DOR A67 . 1472.2 172.6 Hercules Radron 2000 128Mb DOR A6709101 1 1533.8 Hercules Radron 2000 128Mb A67 . 1474.0 1285.0 Hercules Radron 2000 128Mb A67 . 1474.0 1285.0 Hercules Radron 2000 128Mb A67 . 1474.0 1285.0 Geffron Markel Saldh DOR 8 A679 . 1255.6 130.0 Geffron Markel Saldh DOR 8 A679 . 1255.6 130.0	R 19200dpi USB Flatbed Scanner HP Scanlet 2400C USB Scanner HP Scanlet 370°C USB Scanner HP Scanlet 370°C USB Scanner HP Scanlet 370°C USB Scanner Epoon Perfection 1670Photo USB Scanner Epoon Perfection 1670Photo USB Scanner Epoon Perfection 1670Photo USB Scanner Cannor Cannors LIDEO USB Scanner

Super VGA Monitors

i		exc.VAT inc.VAT
	RL 17" (16" Viewable) SVGA Monitor	
ı	RL 19" (18" Viewable) SVGA Monitor	
l	CTX VL 950 19" FST Monitor	£132.46£155.64
١	RL 15"TFT 297 khz	£189.44£222.60
	RL 17" Multimedia TFT	£249.90£293.63
	AOC LM-919 19" TFT with DVI & USB Hub	£387.11£454.86
	Samsung 753DFX 17" .24dp Flat Screen CRT .	£85.60£100.58
ľ	Sharp 15.1" TFT (Available in Black or White)	£174.44£204.97
١.	LG 1512S 15.1" TFT Flat Panel (Silver)	£196.11£230.43
	Hyundai Q770 17" .20dp Small foot Print FST	£94.44£110.97

Hyundai Q770 17' .20dp Small foot Print FST£94.44£110.97
NEC CRT & TFT Monitors NEC MTSUBBSH
All NEC Monitors are available in Black or Beige
NEC Plus 93 19" .25dp Flat Screen CRT Monitor£170.68£200.55
NEC 1560NX 15" TFT with DVI/VGA£214.12£251.59
NEC 1560VM 15" Mulitmedia TFT with DVI£231.10£271.54
NEC 1760NX 17" TFT DVI/VGA£323.33£379.92
NEC 1760VM 17* Mulimedia TFT with DVI£357.78£420.39
NEC 1960NX 18.1" TFT with DVI£443.33£520.92
NEC 2080UX+ TFT with DVI/VGA£1,042.40£1,224.82
NEC LCD3000 30* TFT With DVI/VGA/ R,C£1,979.00£2,325.33

riat beu sta	illiers
	exc.VAT inc.VAT
RL 19200dpi USB Flatbed Scanner	f24.39f28.66
IP ScanJet 2400C USB Scanner	£42.21£49.60
IP ScanJet 3670C Usb Scanner	f57.92f68.06
IP ScanJet 5500C USB Scanner	£203.99£239.69
pson Perfection 1670Photo USB Scanner	£77.68£91.27
pson Perfection 2400Photo USB Scanner	£117.69£138.28
pson Perfection 3200Photo USB2 Scanner	£236.14£277.47
anon Canoscan LiDE20 USB Scanner	£40.02£47.03
Canon Canoscan LiDE30 USB Scanner	£48.19£56.62

.f114.64....f134.71

RL SUPPLIES LTD



CLOSED 2pm 24/12/03 and

OPEN AGAIN as normal 9:30am 02/01/04



ntergrated 4 port switch (for NTL & Telewest etc)£60.68£71.30	
D-Link DSL-604G+ Wireless ADSL Router with intergrated ADSL	
Modem & 4 Port Switch£102.58£120.53	
O-Link 54Mb Wireless Broadband Router (DI-624+) £80.60£94.71	
D-Link 54Mb Wireless Access Point (DWL-2000AP+)£72.02£84.63	
D-Link S4Mb 802.11a/b/g Wireless A/P (DWL-7000AP)£173.24£203.56	
D-Link 54Mb 802.11a/b/g Wireless PCI (DWL-AG520+)£41.58£48.85	
D-Link 54Mb 802.11 a/b/g Wireless PCMCIA (DWL-AG 650+)£38.18 £44.86	
D-Link 54Mb Wireless PCI Card (DWL-G520)£38.33£45.04	
D-Link 54Mb Wireless PCMCIA Card (DWL-G650) £26.33£30.94	

Networking	Pro	ducts
1	ext	.VAT inc.VAT
USB 10/100 LAN Adaptor	.£13.57	£15.95
PCMCIA 10/100 LAN Adaptor	.£12.88	£15.13
10/100 Network PCI Network Adaptor	£3.73	£4.39
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Metwork Accesse		
Crimp Tool for RJ45 Connectors		.VAT inc.VAT
RJ45 Network Cable Tester	19.00 .	CO 40
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256Mb USB2.0 Pen Drive	£45.44£53.40
512Mb USB1.1 Pen Drive	£81.33£95.57
512Mb USB2.0 Pen Drive	£83.22£97.79

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	exc.VAT inc.VAT
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	£119.41£140.30
Canon Powershot A300	£153.80£180.72
Canon Powershot A70	f231.09f271.53
Olympus C350Z	£150.56£176.91
Olympus C750uZ	£338.78£398.07
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	32Mb Compact Flash Card	£8.89£10.44
	64Mb Compact Flash Card	£12.78£15.01
	128Mb Compact Flash Card	£19.44£22.85
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	1024Mb Compact Flash Card	£152.22£178.86
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S	64Mb Secure Digital (SD) Card	£17.06£20.04
э.	128Mb Secure Digital (SD) Card	£30.76£36.15
ŀΤ	256Mb Secure Digital (SD) Card	£55.29£64.97
	512Mb Secure Digital (SD) Card	£169.41£199.06
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	128Mb MMC Multi-Media Card	
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	Epson Stylus Photo 1290S (A3)	£254.00	2213.50
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	Epson Stylus CX5400 Printer/Scanner/Copier	£110.55	£120 A2
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Ē	HP LaserJet 1005W Laser Printer	£1/0.41	£127.20
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	Canon BubbleJet 1350		
	Canon BubbleJet i455		
	Canon BubbleJet 1955	E04.U3	(122.70
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JANUARY 1ST 2003 -JANUARY 7TH 2004

SHOW CALENDAR



CHECK OUT OUR WEEKLY LISTING OF I.T. EVENTS, EXHIBITIONS AND FAIRS
PLEASE CONFIRM TIMES AND DATES WITH ORGANISERS AS THESE ARE SUBJECT TO CHANGE

HAPPY NEW YEAR

Every Wednesday ADVANCE COMPUTER FAIRS Wigan Mill at the Pier, Wigan Tel: 01744 601139

Every Saturday
2 Fantastic Venues
BRITISH COMPUTER FAIRS
The UCL Windeyer Building, Cleveland St,
Huntley St Students Union, off Torrington
Place
Both venues off Tottenham Court Rd, Central
London
Tel: 01943 602 784

Every Saturday NORTHERN COMPUTER MARKETS Bowlers Exhibition Centre Manchester Tel: 01706 299902

Every Saturday & Sunday THREE GEM Carpenters & Dockland Centre 98 Gibbins Rd, Stratford London Tel: 020 8534 7347 Mob: 07958 428 447

1st Sunday of Every Month HARROW COMPUTER FAIRS Harrow Venue Eastman Sports Ground, Harrow View, Harrow, HA2 Tsi: 020 8450 0950

7 days QUEENSWAY COMPUTER FAIR Inside Queensway Market , London Tel: 0208 903 0388

Every 2nd & 4th Sunday INTERLINK FAIRS National Sports Centre CRYSTAL PALACE SE19 Tel: 07904 021944

Every 2nd & 4th Sunday WEMBLEY COMPUTER FAIRS Wembley Venue 2nd Door to Wembley Park Station - Jubilee Line Tel: 0208 450 0950

Last Saturday of every Month MAJOR COMPUTER AUCTIONEERS West Sussex Tel: 01342 717445 Every Saturday and Tuesday Evenings TRAFFORD EXHIBITION CENTRE Tel: 0161 865 0707

Various Dates 21st CENTURY FAIRS Brownhills, Nr Lichfield Tel: 01623 627 848

First Saturday every Month TECH AUCTIONS LTD Computer Auction (PE19) Tel: 01480 473570

January 3rd

BEACOMP COMPUTER FAIRS Leisure Centre, Crawley Tel: 01342 718 699

COMPUTE UK Marconi Sports Club, Chelmsford Tel: 01328 856272

NORTHERN COMPUTER MARKETS Bowlers Exhibition Ctr, Manchester Tel: 01706 299902

COMPUTE UK Marconi Sports Club, Chelmsford Tel: 01328 856272

NORTHERN COMPUTER MARKETS Richard Dunn Sports Ctr, Bradford Tel: 01706 299902

BRITISH COMPUTER FAIRS UCL Windeyer, UCL Huntley Street Tel: 01943 602 784

NORTHERN COMPUTER MARKETS Edgbaston Cricket Ground, Birmingham Tel: 01706 299902

January 4th

ADVANCE COMPUTER FAIRS Sutton Leisure Ctr, St helens Tel: 01744 601139

TECHNOFAIR COMPUTER FAIRS Blackfen School for Girls, Blackfen Tel: 01622 734 255

TECHNOFAIR COMPUTER FAIRS Ashford Market, Ashford Tel: 01622 734 255

BRITISH COMPUTER FAIRS Ashburton Community School, Croydon Tel: 01943 602 784 COMPUTE UK Knights Hill Hotel, Kings Lynn Tel: 01328 856272

BRITISH COMPUTER FAIRS Charmandean Centre (Free Masons Hall) Tel: 01943 602 784

NORTHERN COMPUTER MARKETS Victoria Leisure Ctr, Nottingham Tel: 01706 299902

EXCEL COMPUTER FAIRS TA Armoury Greek St, Stockport Tel: 01253 721 070

NORTHERN COMPUTER MARKETS Woodford Leisure Centre, Hull Tel: 01706 299902

PRESTIGE Vauxhall Recreation Club, Luton Traders: 07976 401 858/56 to book stalls

TECHNOFAIR COMPUTER FAIRS Blackfen School for Girls, Blackfen Tel: 01622 734 255

Events Line: 07000 202 707

January 5th

ADVANCE COMPUTER FAIRS Swallow Hilltop Hotel, Carlisle Tel: 01744 601139

ADVANCE COMPUTER FAIRS Swallow Hilltop Hotel, Carlisle Tel: 01744 601139

January 6th

ADVANCE COMPUTER FAIRS Marine Hall, Fleetwood Tel: 01744 601139

NORTHERN COMPUTER MARKETS Wolverhampton Racecourse, Wolverhampton (EVENING) Tel: 01706 299902

January 7th

ADVANCE COMPUTER FAIRS Mill at the Pier, Wigan Tel: 01744 601139

NORTHERN COMPUTER MARKETS Doncaster Racecourse, Doncaster (EVENING) Tel: 01706 299902

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Mon 5th Jan

Tue 6th Jan

Wed 7th Jan

Sat 10th Jan

Sun 11th Jan

Tue 13th Jan

Wed 14th Jan

Sat 17th Jan

Sun 18th Jan

BLACKPOOL SOUTHPORT Sutton Leisure Centre Swallow Hilltop Hotel Marine Hall Mill at the Pier Kendal Leisure Centre

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3rd Jan RRADFORD 3rd Jan BIRMINGHAM Sun 4th Jan NOTTINGHAM

Sun 4th Jan HULL

Bowlers Exhibition Centre Trafford Pk (J9 M60) Richard Dunn Sports Centre, Rooley Ave, Odsal Edgbaston Cricket Ground, Edgbaston Victoria Leisure Centre, Gedling St. Sneinton Woodford Leisure Centre, East Pk, Holderness Rd

Tues 6th Jan WOLVERHAMPTON Wed 7th Jan DONCASTER

Wolverhampton Racecourse, Dunstall Pk (Evening) Doncaster Racecourse, Leger Way (Evening)

Sat 10th Jan MANCHESTER Sat 10th Jan DERBY Sat 10th Jan BIRMINGHAM

Bowlers Exhibition Centre, Trafford Pk, (J9, M60) Derby County FC, Pride Park Stadium Edgbaston Cricket Ground, Edgbaston Wolverhampton Racecourse, Dunstall park

Sun 11th Jan STOKE Sun 11th Jan SHEFFIELD

Sun 11th lan WOLVERHAMPTON Fenton Manor, City Road Hillsborough Leisure, Penistone Road

Mon 12th Jan HULL

Willerby Manor Hotel, Well Lane, Willerby (Evening) Tues 13th Jan WOLVERHAMPTON Wolverhampton Racecourse, Dunstall Pk (Evening)

Bowlers Exhibition Centre, Manchester 11am - 4pm Stoke (Trentham Gardens), Wolverhampton Racecourse & Hull (Sundays only) 9am - 3pm All other shows & all Bank Holidays are 10am - 3pm. All midweek shows are Evenings 5pm - 9pi

Computer Fairs

UCL Windeyer Building, UCL Huntley St

Ashburton Community School

Charmandean Centre (Free Masons Hall)

SUNDAY 4th Jan

ALL FAIRS OPEN 10am - Admission charges range from £1.50 - £2.50 depending on location. Accompanied children Free. Concessions apply

See website for details

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britishcomputerfairs.com

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BEACOMP Computer Fairs

SATURDAY 3rd Jan Crawley Leisure Centre, Haslett Avenue, CRAWLEY

SATURDAY 10th Jan St. Willtred's School, Old Horsham Road, (Off Horsham Road, 1/2 mile way Cheals roaundabout) CRAVLEY

SATURDAY 17th Jan

Worthing Leisure Centre, Shafsbury Avenue, GDRING

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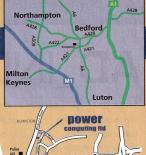
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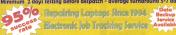
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