

DOUBLE-CLICK



Executive Contact List

Please feel free to contact any of the following individuals if you have comments or questions relating to Macintosh Users East or Macintosh computing in general.

Position/Name	Phone#
BBS Administrator President Jim Foster	Hm: (905) 432-0921 Courtice Email: jfoster@mac.com
Mac Evangelist Past President Bruce Cameron	Hm: (905) 983-9205 Orono Email: bcameron@lis2000.net
Media Contact Mark Fenton	Hm: (905) 430-8234 Email: fenton@idirect.com
Treasurer Membership Chairman Doug Kettle	Hm: (905) 683-3214 Ajax Email: dkettleosga@idirect.com
MaUsE BBS - The Source Courtice	(905) 404-987456k
Executive at Large Chris Greaves	(705) 887-2508 Fenelon Falls Email: cgreaves@i-zoom.com
Executive at Large John Field	Hm:905-885-8718

Macintosh Users East [MaUsE]
eMail: mause@mac.com
P.O. Box 30530, Oshawa Centre P.O.
Oshawa, Ontario, L1J 8L8 Canada
MaUsE Message Line: 905-433-0777

Double Click

Double Click on the web at: www.mause.ca

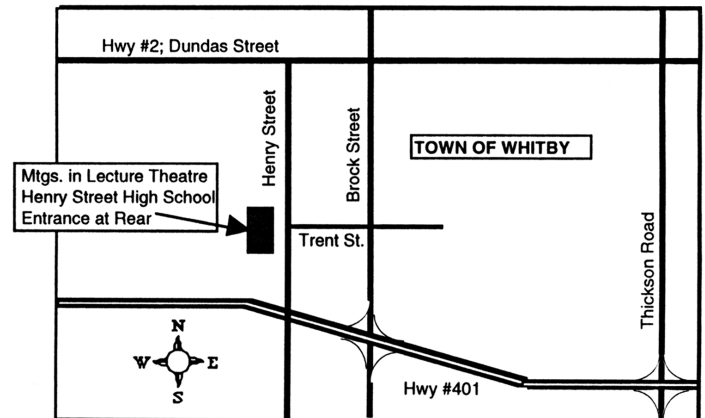
Double Click Editor
Michael Shaw
Hm: (905) 576-2097 Oshawa
Email: michael_shaw@sympatico.ca
fat_idle_bastard@yahoo.ca
FAX: 905-576-5527

Printing & Distribution
Doug Kettle
Hm: (905) 683-3214 Ajax

Cover Design
Sean Murphy

From the Editor

Lots going on for the spring. The recession, such as it was, is over. The economy is booming and there's a whole new crop of Apple G4 MP towers and cute high-megahertz iMacs waiting to cross the counters into our lives. Maybe this year will be a G4 year for you or someone you love. Remember, Macs make the very best presents and real friends don't let friends do Windows. Speaking of friends and presents, there's a lovely poem in text message speak included in this issue that you can send to your friends.



The next meeting will be held at Henry Street High School in Whitby on Wednesday May 22nd at about 7:30 P.M. Park behind the school and enter through the West doors. Follow the signs or Mary's expert instructions to find your way to the assembly.

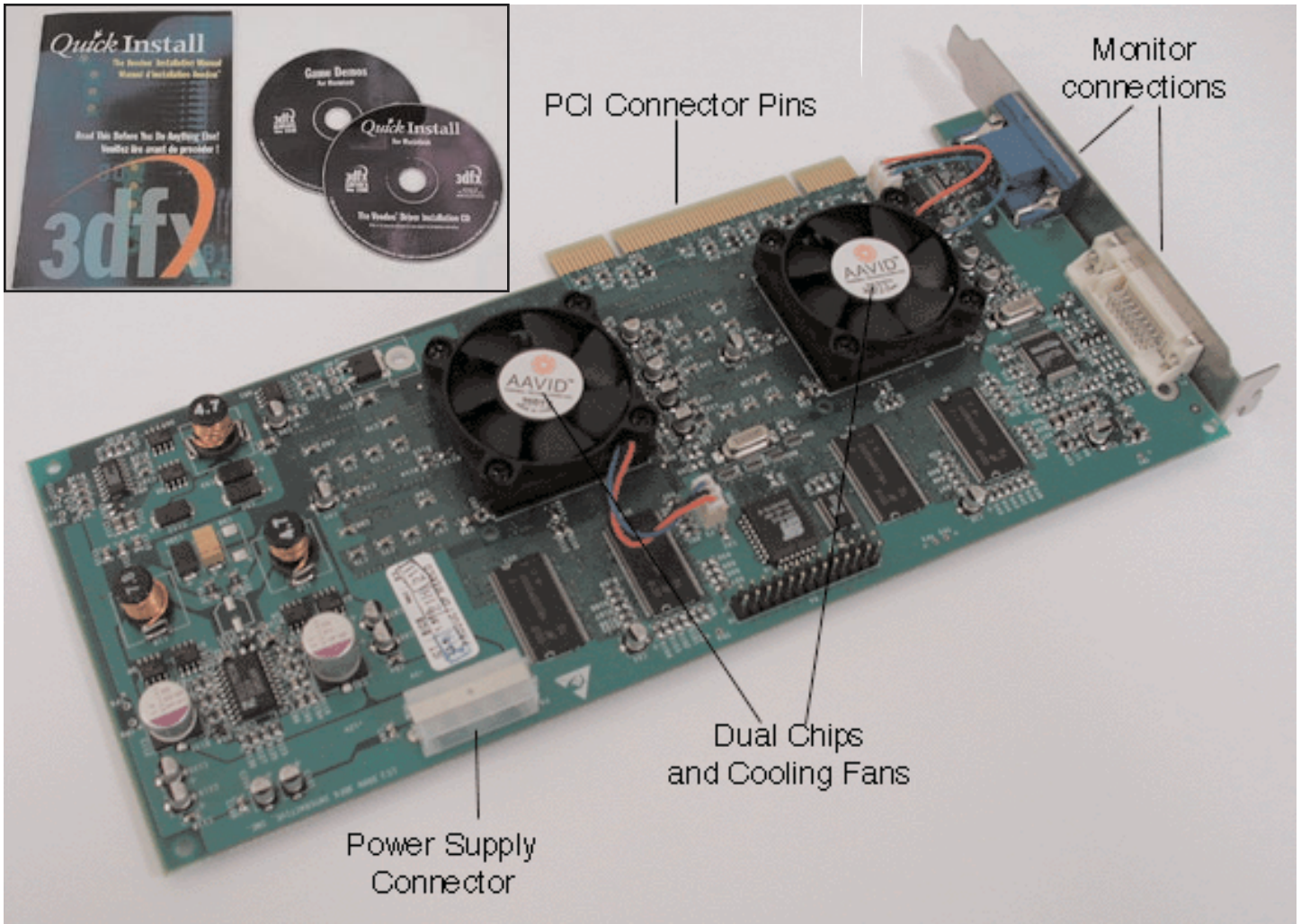
Small Print

What you are looking at is the latest edition of the Double Click monthly newsletter from the Macintosh Users East, (MaUsE), a motley collection of old and new Mac users who reside in Southern Ontario with a motley collection of old and new Macintosh computers. What more do you need to know? Oh, yes. This Newsletter is created by Michael Shaw, Double Click Editor, on a Sonnet-accelerated Macintosh PowerPC 6500/400 and a Daystar Genesis MP 800+. Submissions from MaUsE Club members, 'though rare, are always welcome. Send them to: michael_shaw@sympatico.ca. I have never refused a submission yet. There's always room for another piece on ANY Mac-related topic and I'll make room if there isn't. I would like your submissions. But I won't beg.

Apple, Macintosh, and the Apple logo are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. The MaUsE (Macintosh Users East) is an independent user group and has not been authorized, sponsored, or otherwise approved by Apple Computer, Inc.

Contents

Voodoo5 5500 PCI
Low End Macs
Drive 10
LockOut
Meeting Pix

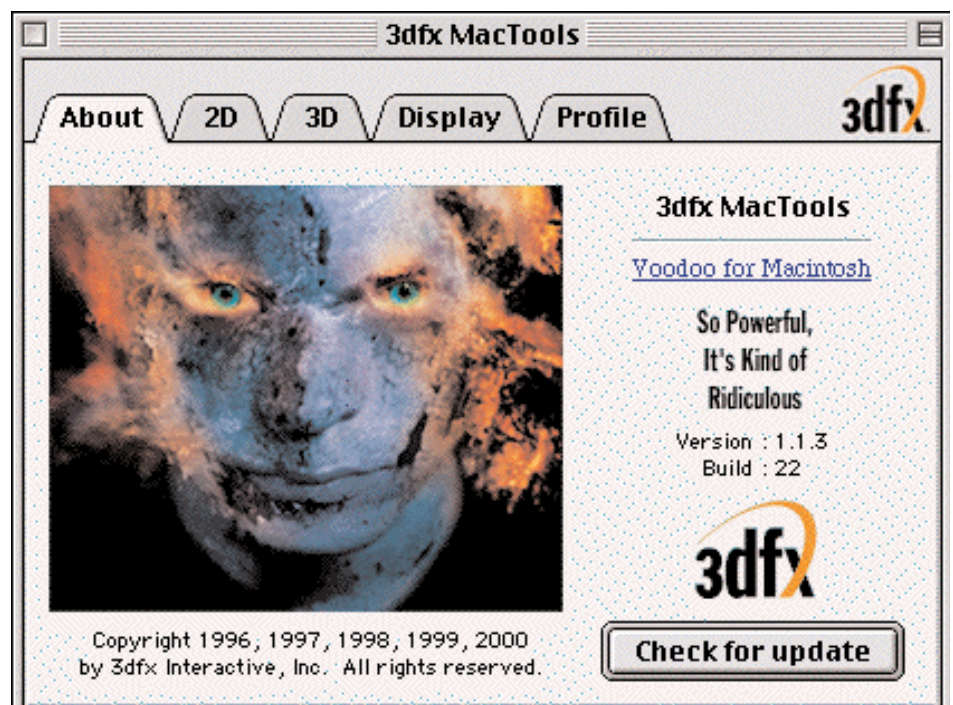


3dfx Voodoo5 5500

There is usually an article or two in each issue in which I extol the virtues of some totally obscure or seriously retro NuBus or PCI Mac hardware upgrade artifact that I have picked up for a few

If you've been reading the MaUsE Double Click newsletter since I became Editor, Chief Reporter, and Publisher, (and general all-around dogsbody), you will have noticed several things about the type of things that I personally find interesting enough to put into print for you all.

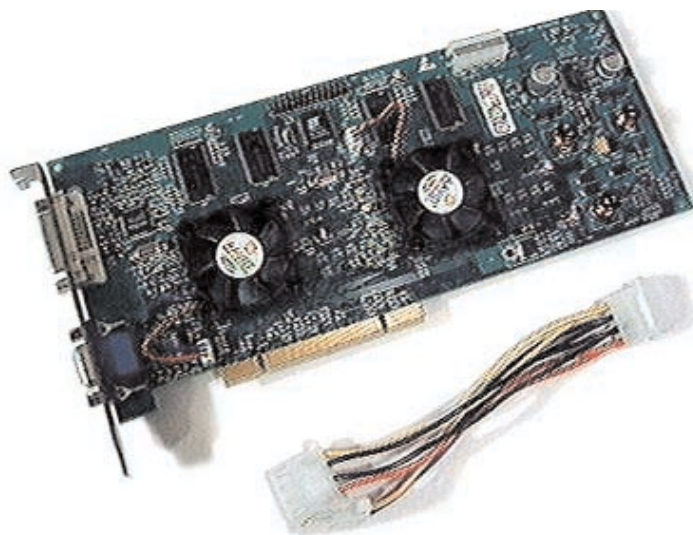
(Please note the complete absence at this time of the usual remarks comparing my ongoing efforts to elicit submissions from the MaUsE membership to the labours of Hurcules.)



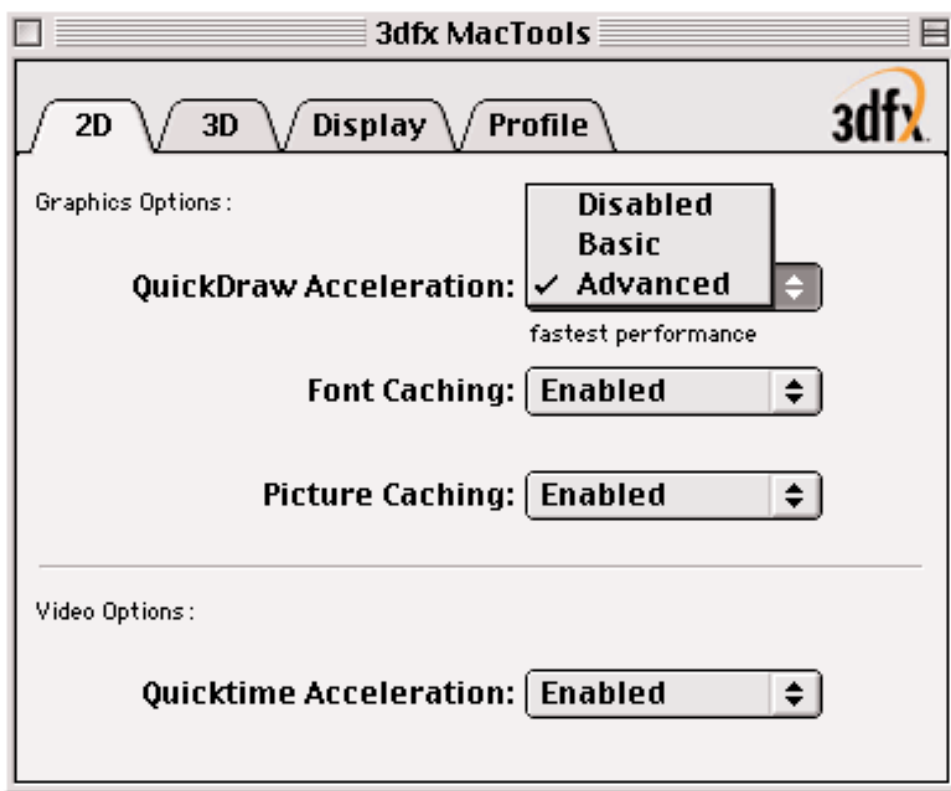
cents on the dollar off eBay or some MacSwap ad somewhere. This issue will be no exception. Like all of us I have my favourites but I love all of my Macs. And, like most of us Mac users, I am notoriously thrifty and adept at recognizing a bargain. With so many Mac upgrades to choose from I'd like to describe for this issue an upgrade for any one of three of my absolute favourite personal Macintosh models. This video card will fit in my Daystar Genesis MP 800+, Irma's B&W G3, and, with a few minor alterations and modifications, into my Sonnet-powered G3 PowerPC 6500.

The interface for internal connectivity on expandable Macs in the early and mid 1990's was NuBus. Centris, Quadra Macs had NuBus slots for expansion. There were so many wonderful NuBus video cards to plug into Macs that it was entirely possible for Apple to market their best 68030 Macintosh II model, the wickedly fast 40 Mhz Mac IIfx, with NO onboard video. The earliest PowerPC Macs continued with NuBus slots but they soon disappeared. After NuBus came PCI, a faster way for computers to connect to enhancement and expansion plug-ins like video and communications cards. And after PCI came the AGP architecture that we accept now as part of normal modern computing. Of course the evolution from one type of interface to its successor was a slow process involving a lot of Mac models that were only slightly expandable. The 1997 9500 series has six pci slots (one for a video card and five empty slots) while the 1997 6500 has only two. The much later B&W G3 has four but one of them has the video card in it so only three are available for expansion.

My latest acquisition on the "Low End Mac" SWAP List (see the next article for LEM SWAP List details) is a hugely powerful video card, the Voodoo5 5500 PCI for Macintosh, the penultimate video card from the now defunct 3Dfx company.

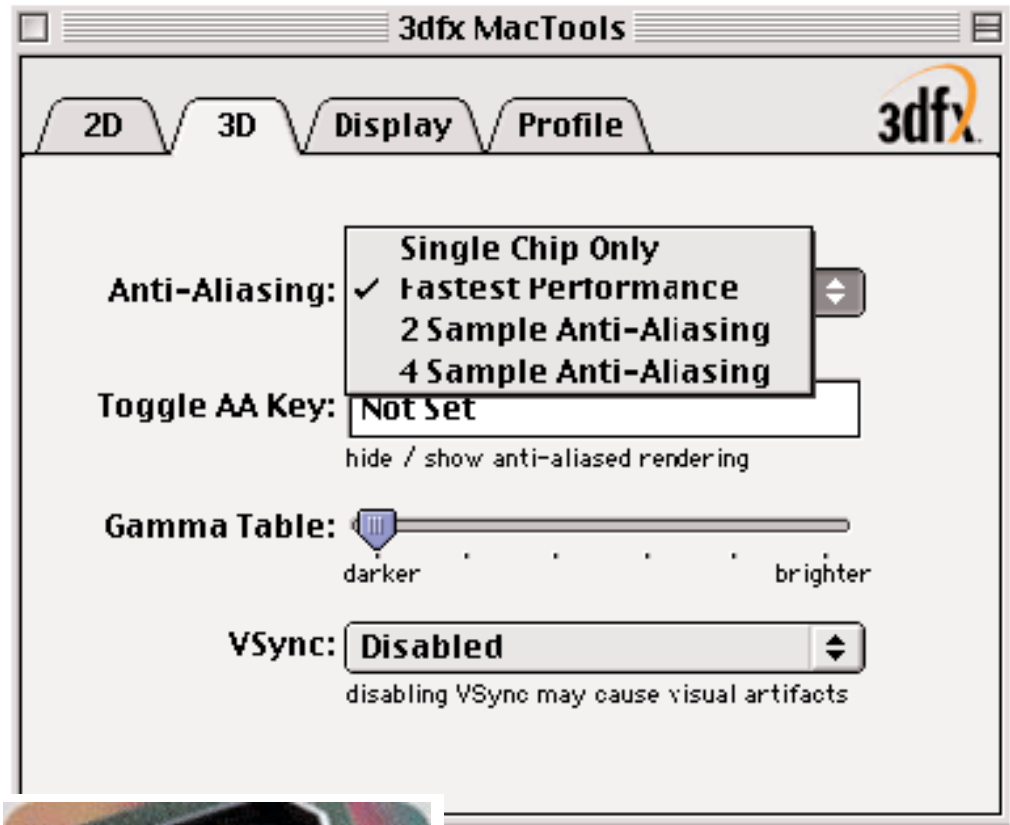


See the picture above. This **64-Meg** video card is so big that beyond the power supplied by the PCI bus it requires a separate cable and power hookup off the CPU power supply to provide the juice for the two on-board processor cooling fans. There are two fans because there are two video accelerator chips. 3dfx made lots of PCI video cards and are well-known for their high-end gaming cards from the 1990's, the Voodoo2, Voodoo3 , and Voodoo 4 cards with 8, 16 and 32 Megs of video RAM, but with 64 Megs of VRAM the Voodoo5 5500 for Mac and PCs was their crowning achievement. To put this into perspective, most pre-G3 Mac models shipped with one

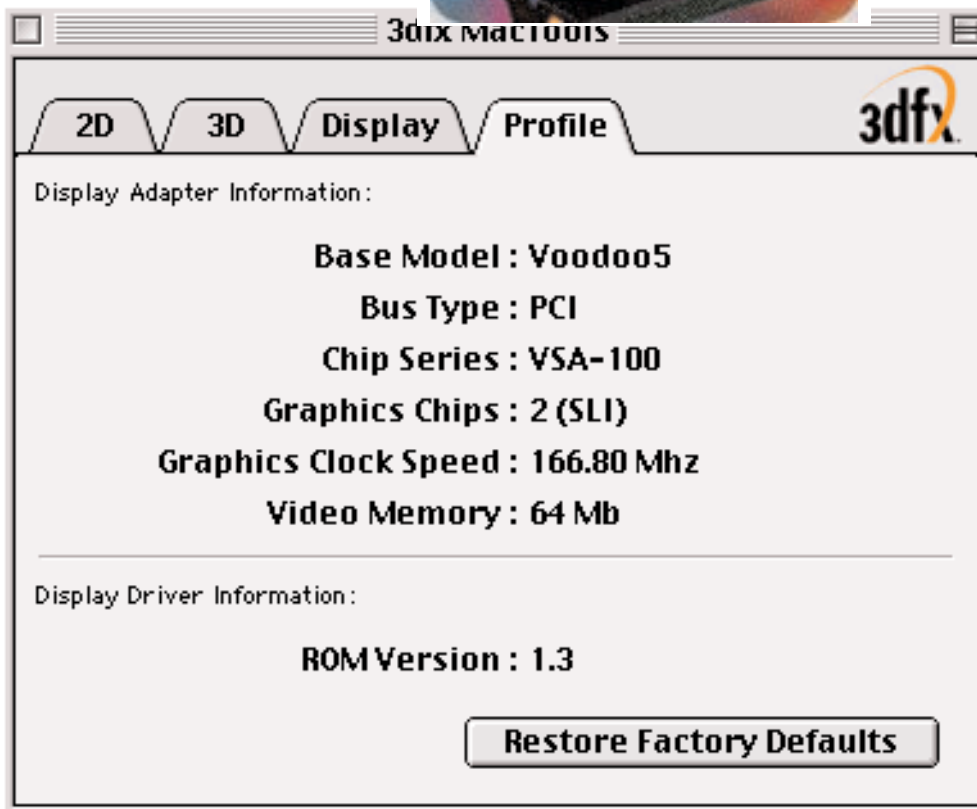


or two Megs of VRAM and many after-market PCI video cards for Macs routinely shipped with just two or four Megs of RAM that either could or couldn't be expanded with another two or four Megs of VRAM. The Voodoo5 5500 card came in several models, with PCI and AGP connectivity and were either Mac or PC compatible.

The market price for a Voodoo5 in 2000 was \$329.00 U.S. directly from 3Dfx. When 3Dfx went out of business their cards dropped in value as support disappeared and I found this card for \$50.00, which is about 15% of its retail price. For a more accurate idea of the cards street value I searched Completed Auctions for "Voodoo5 5500 PCI Macintosh" on eBay and found a couple there that



sold within the past week for between \$125.00 and \$138.00 U.S.. That indicates how unusual these cards are: nothing drops in price faster than computer hardware but this particular card can still command about 40% of its full retail value.

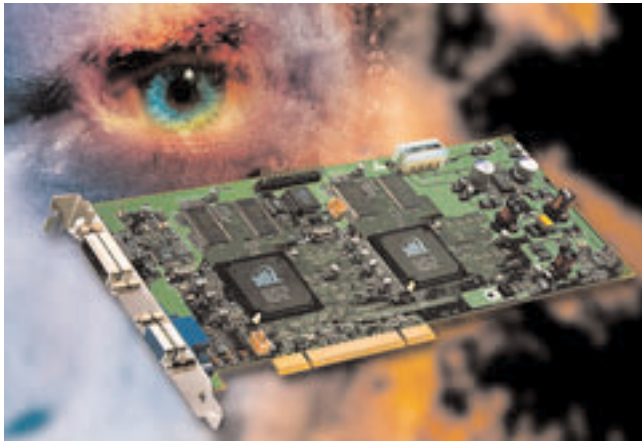


Unlike the Voodoo3 drivers that 3dfx has offered for the Mac without official support, no ROM flashing of the card is necessary to get it to work -- the Mac version of the Voodoo5 5500 PCI card comes from the factory ready to work in the Mac.

3dfx's drivers consist of several system extensions:

- 3dfx GlideLib2.x
- 3dfx GlideLib3.x
- 3dfx Graphics Accelerator
- 3dfx OpenGL Renderer
- 3dfx Rave

As the names of these extensions imply, 3dfx supports



three different 3D API's on the Mac -- its own home-grown technology, Glide; OpenGL, the industry-standard API preferred by Apple and increasingly leveraged by game developers; and RAVE, the Apple-made 3D rendering technology used on many older Mac games.

A control panel device called **3dfx MacTools** is also installed. 3dfx MacTools provides users with the ability to adjust myriad 2D and 3D performance aspects of the Voodoo5 5500 PCI card, including the ability to toggle QuickDraw acceleration, font caching, picturing caching, and QuickTime acceleration. Users can also configure their own preferences for the card's vaunted full-scene anti-aliasing capabilities. 3dfx MacTools also provides users with the ability to change color depth and resolution settings -- Apple's own Monitors and Sounds control panel and the corresponding control strip module continue to function normally, as well.

Full-scene anti-aliasing is the technique used by the Voodoo5 5500 card to smooth the appearance of on-screen 3D images. Like the anti-aliasing functions of your favorite image editing programs, the Voodoo5 5500 smooths the rough spatial edges created by the intersections of the triangles used to create 3D models. The difference is that the Voodoo5 card is fast enough to accomplish this in real-time while a game is being played, dozens of times per second. MacGaming.com has posted separately more detailed examples of full-scene anti-aliasing at work. Often times, game levels incorporating complex 3D geometry will often create a moiré-pattern effect, as polygons intersect with each

other in distant perspectives. This "hatching" effect is virtually eliminated when full-scene anti-aliasing is turned on. Best of all, full-scene anti-aliasing is compatible with all 3D applications -- no software patching or updating is necessary to get it to work. In practical terms, what this means is that when full-scene anti-aliasing is turned on, the Voodoo5 5500 PCI card provides gamers with a smoother, more realistic image -- images free of the "jaggies" or "pixel popping" seen otherwise.

Since the introduction of the G3, Mac users have had very few choices regarding their graphics acceleration. ATI has been Apple's almost exclusive provider of graphics cards since 1996. While



ATI makes very good graphics boards, the version currently shipping with the desktop Macs, the RAGE 128 Pro, is long overdue for an overhaul. ATI apparently agrees, as they are preparing to take the wraps off of their own next generation accelerator, the Radeon card. However, the Voodoo5 5500 is available now at very reasonable cost and ATI has a long way to go to match the sheer power and beauty of the Voodoo5.

The Voodoo5 5500 is based on 3dfx's VSA-100 chip, a graphics powerhouse in its own right. However, the chip, and thus the architecture of the latest Voodoo card, is scalable. Much like Apple's strategy with the new PowerMac G4 MP, the Voodoo5 5500 sports two VSA-100 chips, and a mind blowing 64MB of video RAM. By using two chips working together, the Voodoo5 achieves levels of graphic output not previously seen in the Macintosh market. Each chip has its

own allotment of 32MB, and each chip has a separate fan. The board itself is huge. HUGE.. Due to the power needed to run the card and the fans, the Voodoo5 needs its own power source. Any extra power cord for internal drives will do the job, and if users do not have an extra power cord available, the Voodoo5 comes with a Y adapter allowing the card to suck power from a drive or other internally powered device.

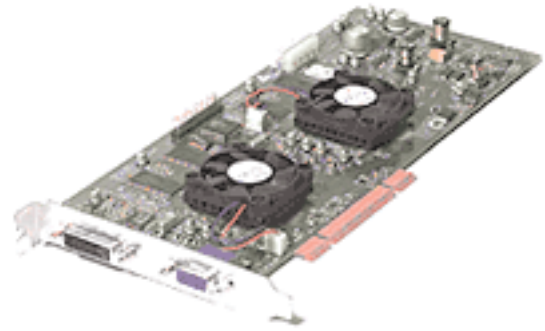
Installing the card was a snap on the Daystar Genesis MP 800+ test machine. Originally this card required at least a G3 but with the new 3dfx



drivers it is fully functional in a PCI 604e PowerPC. Power down and unplug everything, pop the door open, take out the one screw holding the Twin Turbo 128 in place, pop in the Voodoo5, tighten that one screw back up, plug the four-wire connector into the Voodoo5 card and into the power harness for the SCSI drives, and we were good to go. Obviously, the more bandwidth you can give it, the better the performance will be. This card belongs in the 66 or 33 Mhz PCI slot of a G3 or G4, but works just fine on the PPC 9500 motherboard in the Daystar machine. We eventually left the card in the slot formerly inhabited by the TT 128.

One of the biggest reasons for the high performance is the ability for one card to Scan Line Interleave, or SLI. SLI allows the chips to literally split the work in half; one of the VSA chips will render one line, the other chip the next, and so on. This allows for few wasted cycles, and incredibly high picture quality output. This kind of horsepow-

er allows for the Voodoo5 card to perform Full Screen Anti-Aliasing, or FSAA. Anti-aliasing is simply the idea of "smoothing out" the jaggies created by pixilated images. Round surfaces are simply illusions created by packing pixels together. Anti-aliasing eliminates the jagged appearance by adding pixels and softening the edges of images. Mac OS 8.5 built anti-aliasing into the system for screen fonts, making words look less pixilized and more natural.



Now apply this to full screen, 3D games. Anti-aliasing has the effect of making surfaces look more natural, pillars to appear truly curved, reflections to match the light source better, and generally give the scene a more realistic aura. This takes an incredible amount of processing power and fill-rate, and the Voodoo5 handles this task marvelously. Some games, like Quake 3 Arena, are designed to have visual artifacts like jaggies already minimized. Others like Episode One: Racer and Unreal Tournament are high contrast games, with apparent edges and textured surfaces at every turn. Regardless of the type of game, FSAA makes an impact. Quake 3, with its many steps and curved surfaces, appears even more haunting and "dark" (the mood, not color brightness) and Unreal Tournament and Racer jump to life with vibrant images, textures, surfaces, and objects. FSAA, of course, takes great



3dfx Voodoo5 5500 PCI 64MB for MAC

Once the exclusive domain of high-end graphic workstations, the Voodoo5 5500 PCI for Macintosh brings Real-Time Full-Scene Hardware Anti-Aliasing to your Macintosh desktop. Featuring 64MB of memory for peak graphics performance, the Voodoo5 5500 eliminates the "jagged" lines that corrupt real-time 3D images with a single click. Rough 3D images transform into seamless 3D landscapes at resolutions as high as 2048x1536x32bit. In addition, since the Voodoo5 5500 PCI does all the work in hardware, every Glide® or Apple OpenGL game you own looks sharper, clearer -- instantly! And for professional applications the Voodoo5 5500 PCI is the perfect tool for 3D design, solid modeling, CAD and animation going beyond analog CRT's to drive the latest, ultra-clean, all-digital flat panels.



Part Number	Platform	Contents	MSRP	Our Price	Order
V555364-MAC	MAC	Retail package	329.99	309.99	0

processing power, and at higher resolutions can cause a performance hit on the game. However, it has been noted that dropping a few frames per second (fps) was worth it for the enhanced visual appearance of the game.

For those that are performance hungry, 3dfx has provided a control panel offering precise control over the Voodoo5's settings. In 3D mode, users are given the option of turning anti-aliasing on or off, and selecting from 2x and 4x sampling.

The Voodoo5 5500 card has other neat features, like depth-of-field blur, and motion blur. That is, things that are farther away, or zipping by at high speeds, will not appear as sharp and clear as something that is stationary, or right in front of you. there are some very bizarree and vivid screen-saver utilities on the internet that really show off the video strengths of this card.

While all this is neat, who can take advantage of it? Well, everybody. Or, every game, rather. The Voodoo5 supports 3dfx's proprietary, high quality API called Glide, as well as Apple's own QuickDraw 3D based RAVE and the industry standard OpenGL. Even more impressively, users will notice a difference not only in frame rate performance, but also in visual appeal with the installation of the Voodoo5. 3dfx designed the card to work at a hardware, rather than a software level. This means that no special programming is required to take advantage of FSAA. This stands in contrast to the forthcoming ATI Radeon card on the Mac side, and the critically acclaimed NVIDIA GeForce 256 on the PC side.

The best place to find a card like this one is still eBay, but if you need the card brand new still in the retail package, a search on the internet will find a retailer who still has some left for \$309.99 U.S. plus postage !!!

LowEndMac.com

because every Mac becomes
low end sooner or later...

I ♥ My
LowEndMac LowEndMac.com

It ain't obsolete
'til I say it is.

Low End Macs: Lists For Everyone

The Low End Mac site on the internet can be reached by doing a search for Low End Macs in your browser. Once you have visited the site you will find that there is a special interest group listed at the Low End Mac site for every model and type of Macintosh. The List index at <http://www.lowendmacs.com/lists/index.shtml> lists all of the lists and gives an estimate of the world-wide membership of each.

Got a PCI Mac ??? Join the 626-member PCI Mac List. Got an iMac ??? Join the 493-member iMac List. Got a Mac with a Motorola PPC603 RISC processor in it ??? Join the PPC603 List. Got an old Mac or MacClone with multiple processors ??? Join the 38-member Old MP Mac List. Laptops, Quadras, StarMax, Compacts, Lisas, whatever. There's even a 191-member list just for people determined to run OSX on their unsupported Macs.

Not that Mac users ever have what you might exactly call problems with their computers but there are situations and events specific to certain models and its nice to know that any question you might have about your own particular Mac can be posted to the appropriate LEM List and it will be aired in public conference before a large group of other Mac users who have the same type of computing concerns as you do. An excellent place to find out why your Sonnet G3-upgraded PPC 6360 won't play nicely with your Geoport.

My first exposure to the Low End Mac lists occurred just after I acquired the 68040 Quadras 950 and 840AV. My previous Macintosh experience, limited to the only other Mac in the house, the Performa 6200CD, did not prepare me for the world of fully expandable 68040 NuBus Macs. There's just so much to ask about these deluxe Quadras and who better to ask than the people

It ain't obsolete
'til I say it is.

LowEndMac.com

who have them. I joined the LEM QuadList just by sending a Subscribe message to the ListServ. I got a request for confirmation a few minutes later and the next day there were a couple of dozen messages in my Inbox from complete strangers asking and answering each others' questions about Quadra computers like mine.

Very interesting stuff for a new user. Imagine a global bulletin board frequented by hundreds of people with nothing in common except Macintosh Quadra computers, offering up video, sound and printing advice, experiences of memory management, where to get the best deals, networking help, software problems, upgrade experiences, update news, hardware installation advice, gossip, slander, opinion, warnings, rumours, requests for parts, and parts offered for trade. Its there now if you subscribe. I cancelled my subscription to the QuadList when I got rid of the Quadoras. I still subscribe to several LEM Lists, though, and find that I still get at least a few messages every day. The Old Mac MP List gets about ten or fifteen messages a month from owners of various Multi-Processor Macs and Clones. Its an excellent source for people resurrecting vintage or uncommon MP Macs and Clones who are likely to have or need old System software, special MP extensions and obscure MP plug-ins for popular programs.

The LEM SWAP List often gets as many as forty or fifty messages per day, and all messages posted to the List go out to all subscribed members but replies to the messages go only to the sub-

I ♥ My LowEndMac

scriber who posted the SWAP ad or request. A lot of people who do not deal with eBay for whatever reason have turned to the Low End Mac SWAP list to sell off stuff to the people they know and trust at Low End Macs. People like me.

My most recent bargoons on the SWAP list were the Voodoo5 card mentioned in the previous article for \$50.00 and a set of four 128 Meg 168-pin FPM DIMMs for my Daystar Genesis MP 800+, 512 Megs in all, for \$125.00 U.S., which included shipping from Santa Monica, CA. Considering that MacWarehouse in Toronto has the 64-Meg DIMMs for \$129.95 Canadian each, the SWAP List RAM deal is a bargoon. Buying 512 Megs of 5 Volt RAM at MacWarehouse would cost about \$1,040.00 Canadian plus sales tax, and delivery would be extra.

If you have the time and the interest check out the Low End Mac site and sign up for one or two of their lists. Its easy to subscribe and just as easy to unsubscribe when you don't have the time to answer your email. You'll find that some of the best "interactive" resources online are the people dedicated to sharing your interests.

LowEndMac.com

because every Mac becomes
low end sooner or later...

Drive safely.



The first and final disk utility for Mac OS X

OSX spooks me a little. I don't have it running on anything in the house and when I do see it at work its not familiar enough yet to inspire confidence. What I dread is trying to fix a Mac that has OSX running on it as the default system. It hasn't happened yet but eventually I'm going to have to fix up a Mac with OSX on it. When that day comes I'll probably rely on Norton's Utilities for OSX or Micromat's **Drive 10** for assistance.

Drive 10 is a new product from Micromat Incorporated, the leader in Macintosh disk repair and maintenance technology. In the 12 years that the company has been producing Macintosh products, Micromat has been at the forefront of Macintosh technology. Micromat introduced the first commercially available diagnostic for Macintosh in 1989. They also produced the first computer diagnostic ever launched into outer space. Now with the release of Mac OS X, Micromat introduces the first commercial drive utility available for this new system.

Sporting a sleek Aqua interface, this advanced disk repair and recovery product has been designed exclusively for Mac OS X. In addition to repairing drives and recovering data, Drive 10 offers the additional benefit of providing automatic, regular backups of important volume structure data. This feature can make data and drive recovery far easier and more reliable.

There are a variety of invisible files, settings, and parameters that the OS X file system uses to locate files, free disk space, and for other mainte-

nance and management routines. These are known collectively as the Volume Structure. The Catalog and Disk Directory are parts of the volume structure. Damage to these and other critical structures can result in lost or damaged data that could require a complete reformat of the media. Reformatting a drive destroys ALL data on the media.

Drive 10 can scan your drives and repair problems related to the numerous structures that are necessary for the volume to operate correctly. If problems are found, Drive 10 can often repair these problems and bring your drive back to life in only a few minutes. When Drive 10 finds a problem, it will build a new set of volume structures instead of patching the old structures like other utilities do. This is the surest and safest method of recovering your valuable data. This is what else Drive 10 can check:

- **Unit Ready**

Ascertains the drive's ability to receive commands.

- **Supply Voltage**

Checks the power supply voltage level that powers your drive!

- **Self-Diagnostic**

Runs manufacturer's self-test on the drive.

- **Re-zero Unit**

Determines the drive's ability to resynchronize and re-zero the read/write heads.



- **Format Check**

Establishes whether the drive was properly formatted during initial setup.

- **Spare Sectors**

Checks the service tracks to isolate whether there are enough spare blocks for block repairs.

- **Surface Scan**

Checks entire media surface for defects that could cause read or write errors. Blocks are repaired by remapping.

- **Random Read**

Used in conjunction with the Random Write test, reads data from a random memory location.

- **Random Write**

Used in conjunction with the Random Read test, writes data from a random memory location.

- **Seek**

This test checks the ability of the initiator to position the device heads in preparation for access to a particular logical block.

- **Linear Read**

Used in conjunction with the Linear Write test, reads a linear set of blocks from the drive.

- **Linear Write**

Used in conjunction with the Linear Read test, writes a linear set of blocks to the drive.

- **Read Buffer**

This test is used in conjunction with the WRITE BUFFER command as a diagnostic function for testing the drive's buffer cache and bus integrity.

- **Write Buffer**

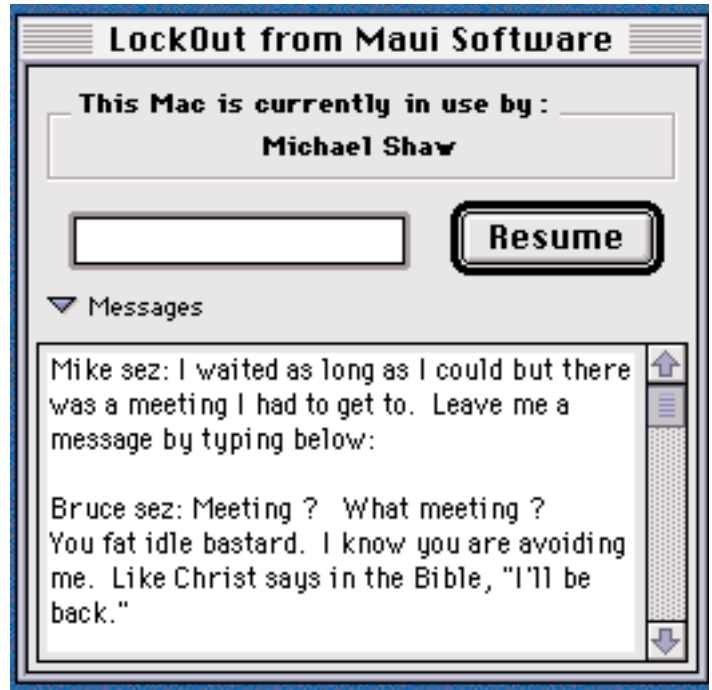
This test is used in conjunction with the READ BUFFER command as a diagnostic function for testing the drive's buffer cache and bus integrity.

- **Volume Structure**

Tests and repairs critical volume structure elements like Volume Header, Extents File, Catalog File, Attributes, etc.

LockOut

This is not a fully featured security program but it does have a few features that make it an ideal protection program for use on a Mac in an office environment. I have it on my Mac at work and can walk away from it at any time knowing that nobody will be playing solitaire on it when I return. The documents and applications on my computer are password protected by the LockOut application, rather than by an extension or a control panel, so starting up with the Shift Key held down to disable Extensions and Control Panels does not prevent LockOut from doing its job. Like most applications of this ilk, LockOut asks for a password only if the program is enabled. There are several ways to enable the protection. One is to put an alias of LockOut in your StartUp items so that the computer asks for a password each time the Mac is started. Another possibility is launching the program from an alias in the Apple Menu Items each time you get up and walk away from your computer. Or you could do both. That way you can rest assured that any attempts to startup your Mac or open files on it in your absence will be duly noted and cataloged with the time of each occurrence. There is a Log document accessible from the LockOut menu that keeps a record of failed attempts, the number of attempts and when they occurred.



One of the nicest features of this program is that while it does block access to the files in your Mac it also leaves the Desktop visible with an open notepad where you can leave and pick up messages on your Desktop if you are expecting visitors while you are away from your Mac. All icons disappear but the LockOut pad remains open. This can be a useful tool if you can be reached elsewhere and don't want to miss other employees who may stop by your desk with important news. Others will see your messages and can leave comments or suggestions on your Desktop to await your return.

To start, select **Settings** from the **Edit** menu.

Enter your name and Password.

Click here so that when you start LockOut, it immediately goes to the "LockOut" stage.

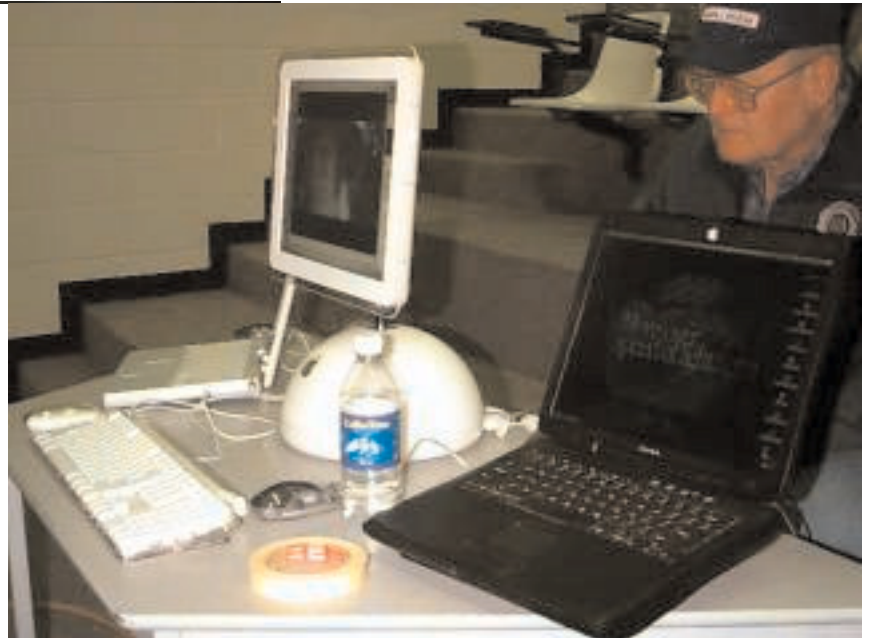
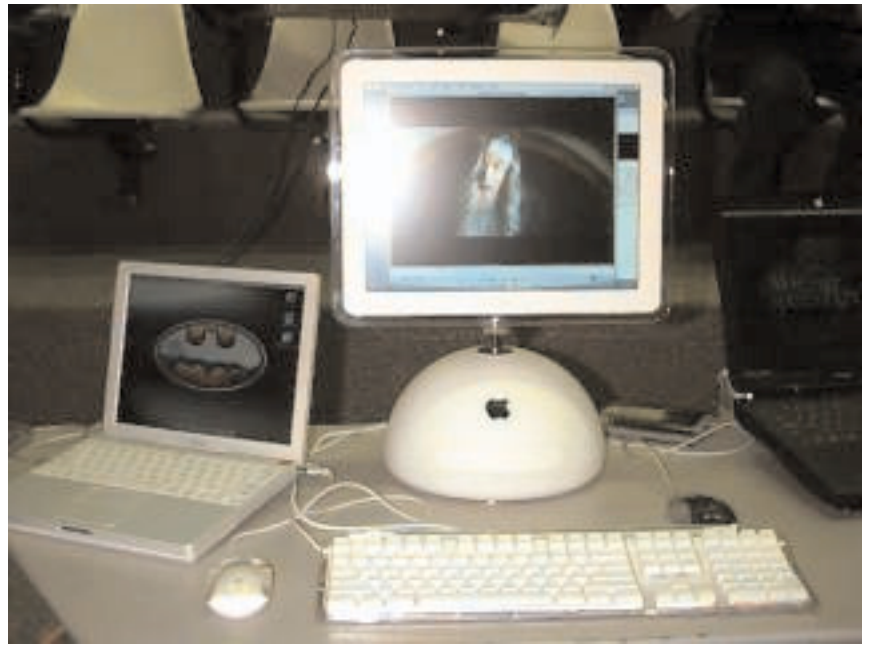
Click here if you want LockOut to keep the messages from the LockOut window.

Click here if you want the background the same as the desktop pattern. Otherwise the background is black.

Once you've paid the small shareware fee, click here (thank you!).



April MaUsE Meeting



The April Meeting was very intensely packed with lots of new Apple hardware and digital photo and DVD editing software. Bob Newnham, our visitor from **TRG Computer Solutions**, an Apple Authorized Reseller & Apple Authorized Service Centre in Aurora, Ontario, brought us a new iMac, his own G3 PowerBook and one of the new little iBooks to show us his presentation on. Much of the visit was taken up with questions and answers about OSX and the various programs that Bob has for working with audio and video files. Bob also brought what he thought was a pile of software CDs to share demos of some of the programs that he showed us. Mine was blank. How did the rest of you make out ?

The meeting ended with the usual raffle of Apple goodies from the Apple collection: T-shirts, mittens, scarves, pens, posters and CDs. Everybody got something and Bob Newnham got a new iMac clock as a token of our appreciation. Hopefully, we'll see him again in Aurora.



The New Donation Program

Just in case any of you all were unaware of it, one day in late April some members of the MaUsE exec, namely Jim Foster, Bruce Cameron, Tom White and Yours Truly took a trek into Toronto and picked up a load of about twenty Macintosh Performa 580CD computers and a box of keyboards and mice donated to our club to find new homes for. It will be the job of certain volunteers from the Club to sort through these computers and fix up whatever we can to make them useful and donatable. To further augment the program Jim and Bruce drove down to Palmyra, New York, in early May to pick up another load of vintage Mac CPUs and monitors. Our MaUsE club has been wildly successful in the past with our donation and refurbishing program for old Mac computers. If you personally know a family or individual who could benefit from our program please let us know. These are not high-end or powerful machines but they do provide all that a student or family without any computer would need to get started.

Any club members willing to help out getting these units usable should contact Jim Foster for details and information. (jfoster435@rogers.com)



POWER CHARGE (1000691 Ontario Inc.)
Toner Cartridge Remanufacturing and Imaging Supplies
APRIL NABEEH
Tel: (905) 433-1106 Fax: (905) 579-1469
FREE PICK UP & DELIVERY

Here's a lovely love poem in text message speak dialect for you cyber-poets. Written by Liz B. Browning. Personally I think it loses nothing in the translation:

How do I luv U ? Lt me # # th ways.
I luv U 2 th dpth + brdth + hite
My sol cn rech wn feln outa site
4 th neds of being + idel gras
I luv U 2 th lvl of evry days
Most quiet need by sun + cndl-lite
I luv U purly as they trn frm prase
I luv U wth th pashn pt 2 use
In my ol greefs + wth my chldhuds fath
I luv U wth luv I semed 2 lose
Wth my lost sants I luv U wth th breth
Smils ters of all my lif + if G chuz
I shl bt luv U btr fter deth.



MicroImage ...plus

We know Mac ...

- iMac, iBook, PowerBook, Power Mac G4
- RAM, Ethernet, AirPort, video
- USB, Firewire, SCSI devices, adapters, cables
- CD-R, CD-RW, Zip, Jaz, Orb, DAT, Travan
- scanners, printers, speakers, software...

Great prices too!

MicroImage Plus, Inc.
1676 Heathside Crescent,
Pickering, Ontario,
L1V 5V6

Tel: (905) 831-0699

Fax: (905) 831-7585

mipus@home.com

Apple Authorized Value Added Reseller