

Technology - MacCentral

## ***Joswiak: 'True to What an iMac Has Always Been About'***

*By Jonathan Seff  
MacCentral*

**Q: Apple has acknowledged that the heat created by the G5 chip posed a challenge for a G5-based iMac. Tell me about how the cooling system addresses that challenge.**

We have three different cooling zones, or cooling areas. One is over the G5 processor; it's an active system. There's a cooling zone that runs of course over your hard drive, which is also another warm part, and another one that runs over the power supply and logic board. By doing the three different cooling areas, we take a big heating challenge and break it into smaller ones, which is really the essence of good thermal design. In the old days, you'd put one fan here and another one here, one to suck in the air and the other to push it, and hope that you just push enough air through the cavity that you cooled it off -- and that just means loud. By doing this, we have very quiet fans. We have some technology that allows us to pulse the fans, we run them ultra slow, and they only run as fast as they need to. There's some power management

technology on the board to do that.

**Q: The G4 iMac could move in all directions -- how does the new iMac compare in positioning?**

The display tilts from negative -5 to 25 degrees. We found that most people don't end up raising or lowering it. The big thing is the tilt direction, and what we've done here is achieve negative tilt, which is very important, especially if you have kids sitting around a computer, because they tend to be looking up at the computer. And we still have the ability to swivel left and right, but it does it on the entire base; we didn't need to create an arm to do that. There are little skids on the bottom -- this achieves much of the same things [as the G4 iMac] in a different way and, we think, in a better way.

One of the things to note is this arm, which is anodized aluminum, actually mounts inside of the computer. It's mounted at the center of gravity of the iMac, which is what makes it so easy to tilt, and yet there's a lot of technology in what appears to be a very simple design to quickly dampen the motion. You'll notice that it quickly dissipates the energy and stops. And if you ever notice anyone else who does anything like that, try it out and see how quickly it comes to rest.

*Con't on page 2, iMac*



### **KMUG MONTHLY MEETING**

#### **Luncheon**

Third Thursday of each month at 10:30 A.M.  
Solarium Room, All Star Lanes,  
Myhre Road, Silverdale  
(one block East of Silverdale Way)

#### **Evening**

First Thursday of each month at 6:30 P.M.  
Solarium Room, All Star Lanes,  
Myhre Road, Silverdale  
(one block East of Silverdale Way)

***KMUG's home page is now at:***

## Con't from page 1, iMac

### **Q: The new iMac looks like a cross between the eMac and the new Apple Cinema Displays.**

Obviously we have one design team. We don't farm out our design, so there's no doubt that you see similarities. One of the similarities that you obviously see is with [the iPod], the same approach to double-shooting plastic -- that's no coincidence either. This is a double-shot plastic, but you have an opaque layer, a crystal layer, over it. That's something that we think looks very nice, but also serves some functional needs. For example, if you're going to put in a CD, you can see from the back where the opening is -- teeny little things like that that tend to, over the course of time, make people love their Mac and inspire magazines like yours, versus people getting [angry] over time at their PCs because of little things that drive them nuts.

### **Q: Can you tell me about the speakers, having them underneath?**

There are little speaker enclosures that are designed to down-fire. And the reason for that is you generally want to hear your sound, you don't need to see it. So we designed it to do just that; it's designed to be for personal listening, with pretty nice frequency range.

One of the things that we wanted to achieve here is true all-in-oneness. That was one of the places we had to break the all-in-one model with previous flat-panel iMac, because you needed external speakers to play stereo sound. And we knew that this one had to be the ultimate when it came to designing an iMac, and the ultimate when it came to designing an all-in-one, so we needed to incorporate speakers. And again, we wanted to do that in a way that didn't compromise the simplicity of the look and the cleanness of the look, but it still allows you to have nice stereo sound with separation and good range.

It's probably worth noting the way we approached the goals of the project, have been true to what an iMac has always been about. The soul of an iMac is really four things. Number one, it's all-in-one elegance, the fact that you can just pull it out of the box, plug it in, and get to work -- it's all there, you

don't have to figure out how to get the jigsaw puzzle to fit together in the right way.

Number two is extreme simplicity. You look at this computer, and you know it's simple. And you guys know better than anyone what the experience is like with iLife and Mac OS X -- it's far simpler than what you can do on a PC.

Number three is, it had to be perfect for iLife, perfect for that digital lifestyle, for how you work with your photos and your music and your movies -- that has to be a space that we own. We can't concede that to anybody, and we want the iMac to be the best way to work with the digital lifestyle.

And number four is an innovative design, as we've always done, starting from the ground up. Not being constrained to going to [a generic computer manufacturer] and deciding where you put the logo, designing a computer from the ground up to meet the needs of our customers. It's those four things that were true in 1998, they were true in 2002, and they're true in 2004, as to what an iMac means. And we think it is true that this iMac delivers on those design goals that we've always had better than any iMac has ever done.

### **Q: The lighter, smaller iMac is obviously more portable. Do you envision people moving it around the house?**

I think it's always been the case that we design computer that can go in any room of your house, any place in your school, or any place in your small business, and sometimes customers change their mind. Sometimes they feel like the computer should go in the living room, and then, maybe later on, it should be in the bedroom, and maybe later on it's the kitchen. Every time they change their mind, it shouldn't be a Herculean effort. We all have friends who have PCs, and wherever they first set it up is where it's going to die -- because it's too much trouble to move all the different components, and all the different things they have to do, to move that computer. And that's not the case here. In the case of this 20-inch iMac here configured with wireless, I've got one cord -- the power cord. It's using AirPort

### ***Con't from page 2, iMac***

for an Internet connection, it's using Bluetooth for its keyboard and mouse connection. So for me to move it, I shut it down, I unplug it, I can carry it anywhere I want, and it's simple enough to plug it in, turn it back on, and get back to work.

### **Q: How do you remove the back?**

There are three screws, and they're captured so they don't come out at all, so you don't need to worry 'Oh my God, where did that screw go?' Loosen the screws, and the back will simply come off, downward first, and the back is off -- you now have full access to the machine. AirPort is easy to add. The antenna are embedded in the computer, so all you have to do is get your AirPort card, plug it in, push the antenna jack in, and you're off and running. You can put up to 2GB of RAM inside, with standard 400MHz DDR memory.

### **Q: What about the rest of the machine's insides?**

The power supply isn't a brick left out on the floor, it's all integrated inside. It's really amazing, because this is the most compact design we've ever done for an iMac, yet it's the most accessible. It's very easy to service this, which is why you see tabs, because it's easy enough for a service person or even a customer to self-service on this product. There are even four indicator lights on the motherboard that an Apple Care person will tell you to look at the lights, and depending on what's lit up, can tell you the state of different sub-systems.

### **Q: Anything special about the ports?**

You have standard analog audio out, but it's also one of the combo jacks like we have on the AirPort Express that allows you to do digital out as well, so you can do 5.1 surround sound, for example, from DVD Player.

### **Q: Why no FireWire 800?**

FireWire 800 had really been more attractive to a professional crowd. And really, more [appealing] than the speed has been the advantages [professionals] have with cable lengths.

### **Q: Why Serial ATA?**

This has been derived obviously from what we did with the Power Mac G5. We were one of the first to really ship with Serial ATA. This is, in a lot of ways, related to that.

### **Q: Opening up an iMac used to be a weekend project or required a technician. This seems much easier.**

A place where the iMac really shines is that it is extraordinarily accessible. The iMac had always been a little bit more difficult to access. Normally if you go to an engineering team and say, "I need it to be smaller, I need it to be more powerful, and I need it to be quieter," if you don't get kicked out of the room, usually you'll be told, "OK, pick two of those." And this is a case, like with the PowerBook, where they said, "We'll deliver all of that." This is obviously significantly smaller than the previous iMac. We made it more powerful with the G5 processor, and we made it quieter -- this is 25db, a whisper is 32db, I think the previous iMac is 28db.

### **Q: Will the work that went into the iMac**

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## ***Mac Lab Meetings***

Mac Lab is a Special Interest Group (SIG) associated with the Kitsap Computing Seniors. The Lab offers an opportunity for persons interested in the Macintosh computer to gain some hands-on experience and get answers to questions in an informal setting. The Lab is conducted by members of KMUG.

Mac Lab meets every Tuesday afternoon that school is in session.

The meeting is at Poulsbo Jr High in Room A2 from 2:45pm until 4:30pm. If you have any questions contact Gwen Kauffroath (360)377-1715; gwenk17@comcast.net

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### **help you for a G5 PowerBook?**

There's still a luxury we have in two inches that we don't have in a fraction of an inch, if you think about how much space there really is in the bottom of a PowerBook. We've not been willing to do a battleship-like product that some of the PC guys have done with their PC notebooks that use desktop processors. Certainly we were trying to learn from the iMac, but not like, "Oh, there's this breakthrough now, expect it next month.

### **Q: What about availability? Phil Schiller said middle of September in his keynote.**

Well, let's be realistic. That's when they first start shipping. By definition a ramp means going from zero to whatever full capacity is going to be. On day one, there's all this demand that's built up, and inevitably, there's a shortage. People get excited about our products -- that's good, and in no way do I want to dampen that. ... but the reality is with any new product, it's hard to imagine any example where [a shortage] isn't the case. ●

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From the Denver Post

## *A Guy Thing: A Laptop Computer as Window to the Soul*

*By Vic Vogler  
Denver Post Staff Writer*

Today we tackle a burning tech question: Which laptop would James Bond choose if he had to wing something at Goldfinger's head?

For the answer, we turn to a source who may know all. He is David Heim, a deputy editor at Consumer Reports.

"If the repairs were on somebody's else's dime, I'd throw the heaviest laptop," says Heim, who has spent 10 years massaging stories about the testing of all things consumer electronic.

Just the sort of practical, your-question-is-kind-a-goofy insight I needed.

But I am on a mission: I have called Heim at his office in Yonkers, N.Y., to find laptops that are capital-letters TOUGH. Marlon Brando, Lance Armstrong and John Elway-when-he-had- Terrell-Davis tough.

Forget prissy processing speed and hard-drive capacity - laptops offer more than most guys need anyway.

Tell me what'll survive Africa heat, vengeful ex-girlfriends and a fall from the Sears Tower. Plus, what looks the toughest? Don't want no Museum of Modern Art piece under me fingers.

My criteria, it turns out, aren't out of reach; the computers that fulfill them are. Heim describes "ruggedized" laptops, which can laugh off hard tumbles, extreme temperatures, even the shock of bomb blasts. His magazine doesn't test these notebooks, made by companies like Panasonic, "because they're really for specialized audiences" such as the military, and can cost \$4,000.

You can't help but trust a guy in a lab coat. Or a guy who works with guys in lab coats. So I gladly let the witty and accessible Heim, a Park Hill native, steer me toward a more telling set of necessities. Gadgets aside, his real talent lies in plumbing the male psyche.

Heim divides the laptop realm into its yin and yang, Windows and Macintosh, then rates representative models from a dude's point of view:

Mac: "They kind of show that you're serious but you've

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## Con't from page 4, A Guy Thing

got a softer side too." The machines appeals to artsy, urbane types. "You like being way cool ... and very creative, and you're not afraid to show it."

IBM and Dell: "Big, mean, black IBM" in particular says, "I'm all business, I'm serious." Or, with jet-set flair: "Get the heck out of my way, because I'm on way my to Concourse C." Heim does not say "heck," but only Vice President Dick Cheney can be quoted using the more incisive term.

Hewlett-Packard and Toshiba: "My other car is a Chevy." No frills, gets good mileage. A guy who owns one of them, I imagine, will find tax deductions that elude God, but may not get kissed at the office Christmas party.

OK, but what about durability?

"In terms of basic robustness," Apple rates best, followed by Toshiba and Sony. Sony laptops, incidentally, have "a softer side." "They're this funky

silver-purple color. ... They look cool without looking terribly business like."

For the self-reliant type, an 8-pound HP, IBM or Dell might be a better fit. You get "somewhat" longer battery life, and "the heavier models tend to have all the drives built in," sparing the clutter and cost of extra peripherals.

Still, Heim notes a nifty little Mac feature: "a CD drive that loads like a toaster. The others have the usual pop-out tray. If you've been drinking, you could mistake it for a cup holder."

This twist, and that Heim owns a Mac, feed my suspicion he's sweet on the little operating system that could.

Hey, even the toughest among us are allowed to hug our computers.

Vic Vogler is a staff writer for the Denver Post. ●

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## Technology - MacCentral

# ***Virtual PC 7 Released to Manufacturing***

*By Peter Cohen MacCentral*

Microsoft Corp.'s Macintosh Business Unit (MacBU) has announced the release of Virtual PC for Mac Version 7 to manufacturing. As has been

previously noted, the company plans for Virtual PC 7 to reach store shelves in October. Additionally, the company has released Microsoft Office 2004 for Mac Professional Edition to manufacturing -- it bundles Virtual PC 7 as well.

New features in Virtual PC 7 include support for the processors used in Apple's Power Mac G5 and iMac G5 systems; improved performance; faster

***Con't on page 7, Virtual PC 7***



Luncheon Meeting

## ***KMUG Meeting***

*September 17 2004*

Don Diehl opened the meeting of 23 members by reading a portion of an article from the Mossburg Files in which Apple computers were extremely favorably compared to PCs for home users.

David Middleton presented a quite comprehensive basic overview on the subject "Customizing Panther" for the program portion of the meeting. He also mentioned some of his favorite programs including DockFun (for multiple docks) and Xounds (for Appearance Sounds) ( which are both shareware), free Plain Clip (removes clipboard text formatting), and free MacJanitor (which does housekeeping chores).

Submitted by Phyllis Robie

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Luncheon Meeting

## ***KMUG Meeting***

*August 19 2004*

Don Diehl opened the meeting by thanking Joe Williams for producing the last 4+ years of great Newsletters. He also pointed out that ZDnet has interesting information on security issues with the new Windows XP. Also it was brought to our attention that at [www.allexperts.com](http://www.allexperts.com) one can email problems and get back email solutions. And [www.macattorney.com](http://www.macattorney.com) has a site on How To Deal With Common Panther Problems and Routine Maintenance and Generic Troubleshooting.

Bruce Patrick gave a short demonstration of Graphic Converter on the 5th (11 attended) and followed up with a longer program on the 19th (26 attended), so the meeting notes are combined. Graphic Converter is a shareware program (cost \$30) available at [www.lemkesoft.com](http://www.lemkesoft.com) or at [www.versiontracker.com](http://www.versiontracker.com).

To make Graphic Converter the default image application in iPhoto, go to iPhoto Preferences-General-and check the square for Double Click

Technology - MacCentral

## ***Apple Comments on MSN Music***

*By Peter Cohen MacCentral*

This week Microsoft launched a preview version of MSN Music, a potential competitor to Apple's iTunes Music Store. The introduction of MSN Music has elicited a response from Apple Computer Inc.

Microsoft's Windows-only service launches with 500,000 songs from leading commercial artists and independent labels, though Microsoft said it's licensed a million songs -- the same amount Apple noted the iTunes Music Store reached in early August. MSN Music leverages Windows Media Player 10 and Microsoft's own digital rights management scheme. Microsoft also notes that MSN Music is compatible with more than 70 portable digital music players now on the market, though the iPod is not one of them.

While MSN Music is, to date, totally unproven, the service is seen as a major competitor to the iTunes Music Store. Microsoft's marketing muscle, its operating system dominance in the personal computer marketplace and its long reach with third party

*Con't on page 7, Apple Comments*

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Photo to Open in "Graphic Converter". (will probably have to click on Application and then maneuver to Graphic Converter and open in the ensuing window.

To edit photo, double click one in iPhoto. Then can crop by dragging the mouse diagonally over the picture to denote what you want to keep, then go to Edit and down to Trim and then Save. To size the picture go up to Menu then-Picture-Size-Scale and use the slide bar to decide what size to compress to. Then Save As in whatever format you choose. Graphic Converter has many other features such as rotating pictures, working with levels, working with batches plus a tool bar with similar to the one in AppleWorks Draw program.

Submitted by, Phyllis Robie

## Con't from Page 5, Virtual PC 7

screen redraws and more responsive graphics; "fast save"; easier printing; expanded preferences and settings and more.

Microsoft acquired Virtual PC from Connectix Corp. Microsoft first unveiled Virtual PC 7 earlier this year, and in May confirmed the software's release would be delayed until after the release of Windows XP

(news - web sites) SP2, an update to the operating system that recently began widespread distribution.

Virtual PC 7 will first debut with Windows XP Professional -- that version is what Office 2004 for Mac Professional Edition includes, as well. Microsoft also plans to make available Virtual PC 7 with Windows 2000, Home, and Standalone and Upgrade editions "a few months after this debut." ●

## Technology - MacCentral

# ***New Power Mac G5 Uniprocessor Firmware Update Posted***

*By Peter Cohen MacCentral*

Apple has released Power Mac G5 Uniprocessor Firmware Update 5.1.5f2, a new release aimed at Power Mac G5s that have only a single processor. The update apparently corrects "unexpected issues" that have appeared on some Power Mac G5s after applying the first uniprocessor update, released earlier this month.

Apple describes such "unexpected issues" as a possible "kernel panic, the loss of USB function with some keyboards or mouse tracking devices, Bluetooth USB modules that don't respond five minutes after starting up, or interrupted audio playback in iTunes. Disconnecting and reconnecting devices does not help." Apple has posted some details about the issue on their online support database.

Apple advises users whose single-processor Power Mac G5s display these symptoms to remove any third-party RAM from their Power Mac G5, run the new Firmware Updater, then reinstall their third-party RAM. More details are available on the Web page. ●

## Con't from page 6, Apple Comments

hardware makers are all seen as factors that favor Microsoft's long-term success. Microsoft also has a history of coming late to the game with new technologies but ultimately occupying a dominant market position.

Today, however, Apple is on top, with an estimated 70 percent share of the legitimate digital music download market and a more than 50 percent market share of portable digital music players. These are points Apple wants people to remember. The company issued a statement to MacCentral regarding MSN Music's launch:

"Today the score is:

iTunes: 125 million songs downloaded

Microsoft: 0 songs downloaded

"The iTunes Music Store is currently selling over 16 million songs per month (a rate of 200 million songs per year). How many songs will Microsoft's new online music store sell during its first month?

"Compared to iTunes, Microsoft's music store currently offers only half the songs and is missing many features, but its biggest problem may be that its downloaded songs do not play on iPod, iPod mini, or the Apple iPod from HP -- the world's most popular digital music players with over 50 percent market share." ●

### Disclaimer

The KMUG Newsletter is a compilation of information related to the Macintosh community or areas which impact Macintosh computing. Content comes from a variety of sources: contributions, other user's groups or internet news sources. All articles are given full credit for the author and it's source.

The information presented in the KMUG Newsletter does not reflect the opinion of KMUG, but is presented for its informational content.

***KMUG's home page is now at:  
<http://www.homepage.mac.com/kmug1>***

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To join Kitsap Macintosh User's Group, send name, address (e-mail and snail mail) and dues (see renewal below for membership fee to:

**KMUG**

**P.O. Box 1271, Silverdale, WA 98383**

or come to one of our meetings and sign up!

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If you received a paper newsletter please check the membership expiration date on the address label.

To renew with the newsletter e-mailed to your computer, dues are \$20.

To renew with a paper newsletter, dues are \$30.

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**This month's newsletter editor was Joe Williams**



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