

# MugShots

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## Rumor

# Disney to Buy Pixar, Apple? Jobs Still CEO?

By *AppleInsider Staff (AppleInsider@AppleInsider.com)*

**W**ELL, RUMORS ABOUND, and they never seem to end. Over the past few weeks we've been following what would have previously been labeled as highly improbable or even "out there," but one source over the last few days has provided enough details on this unfolding story to merit our attention. To call this anything but a rumor would be naive, but our source suggests it is closer to reality that anyone might think or expect. The following account is based on facts gathered from a single trusted source over the past few weeks.

### Background

Rumors of an Apple-Disney partnership have circulated the Web for as long as we've been publishing, but we have never—until now—received any compelling details or evidence to justify printing the buyout rumors here (let alone those pictorial illusions—err, allusions—which just don't do it for us =). However, this story we've been following may provide the missing link.

Steve Jobs founded the Pixar computer animation studios in 1986 and since then Pixar has enjoyed tremendous success with its first motion picture release, *ToyStory*, and then with the recently released *A Bug's Life*. Much of its success—financial and otherwise—has been due to its relationship with Disney.

Pixar first partnered with Disney in an agreement in which Disney would produce interactive CD titles for Pixar. Soon after, Pixar joined Disney in a film partnership that has since shown great success and financial rewards for each company. Due to the projected success of *A Bug's Life*, Disney CEO Michael Eisner and Jobs were reportedly in negotiations at one point to extend the five-film agreement to eight or ten films, at which point Jobs apparently mentioned something about the possibility of a Pixar buyout to Eisner.

### That's all she wrote...

Using the same powers of persuasion that led Apple to buy NeXT, Jobs was reportedly able to convince his longtime friend, Eisner, and the rest of Disney's Board to consider a buyout of Pixar.

According to our source, Jobs was able to 'sell Apple' by presenting it as the key to developing cutting-edge technology and the computing innovation necessary to bring it to the masses—leveraging Apple's strength in QuickTime and its growing influence in the consumer space.

While our source only speculated on the strategic importance of Disney's acquisition of Apple, a closer relationship with Pixar would be beneficial for future projects. Jobs's leadership and charisma would certainly give Disney a unique position in

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## Steve Jobs to Kick Off Apple's 1999 Worldwide Developer Conference

Steve Jobs, Apple's interim CEO, will deliver the kick off keynote on the first day of Apple's 1999 Worldwide Developer Conference (WWDC), to be held on May 10-14 at the San Jose Convention Center in San Jose, California. Jobs will be joined by Avie Tevanian, Apple's senior vice president of Software Engineering, and together they will give developers an overview of Apple's software "roadmap," including the first in-depth look at Mac OS X, Apple's next-generation operating system.

"Macintosh has returned as a high volume platform for software developers serving the professional, consumer and education markets," said Steve Jobs, Apple's interim CEO. "WWDC is a

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<h1>March 1999 Calendar</h1>						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17 <b>Executive Committee Meeting</b> 7:30 PM GCC AHTBldg. Rm. 502A	18	19 Deadline for Newsletter Articles	20
21	22	23	24 <b>General Meeting</b> 7:30 PM GCC AHTBldg. Rm. 500	25	26	27
28	29	30	31			

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## Executive Committee

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Treasurer	Gordon Beckhart
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## From the President

# Mugsnidge Mutterings

FEBRUARY has come and gone. Several changes within MUGSNJ have begun or are in the making. Perhaps the most significant is the MUGShots Newsletter, which as of this issue will be uploaded to our website, <[www.jersey.net/~mugsnj](http://www.jersey.net/~mugsnj)>, in PDF format. Printed issues will usually (not always) be available at general meetings for member perusal and publicity purposes, but they will no longer be mailed to individual members.

The Executive Committee has decided to change the meeting date from the first Wednesday of the month to the Wednesday before the General Meeting, to make sure that everything is in order for the members to enjoy their get-together. This month was particularly successful, with all four officers in attendance.

A fifth person was there as well, and he (Don McGinnis) is one of the Graphic Arts students who has volunteered to become active in our Users' Group, as well as take over some of the responsibilities in the Macintosh Lab at Gloucester County College. Don's official position will be Communications Chair. His responsibilities will include recording events at general meetings and related activities, as the need arises.

Don's participation is much needed and most welcomed. Our committees have been functioning at the manpower level of skeleton crews. Each chairperson needs additional members to help with the responsibilities of the committee.

There are several others in need of assistance. Please check them out and see if it's possible for you to help with these duties. Among those in need, in general order of importance, are Hospitality—Jacki Moore, Chair: help to set up and clean up refreshments, etc. for general meetings and special events; Membership Database, which I have been doing in lieu of a database-oriented member, so assistance here is necessary; Program—Walt Vennell, Chair: setting up of programs and speakers for the general meetings; Newsletter, me again—helping to

collect and type articles of interest to MUGSNJ members; Shareware—Walt Vennell, Chair (again): help organize and decipher latest versions of shareware apps and utils to burn onto our very salable CDs.

If you take notice of the list of Chairpeople, you'll see that these people are already your elected officers, for the most part. WE already have responsibilities to the Users' Group. And all of us have added responsibilities in our everyday life. We need YOUR help. You won't have to help a lot, but you can if you want to. We will not pressure you into something you are unable to do or find distasteful. You would not be asked to do something we ourselves wouldn't do, and probably already do!

But we do need your ideas, your hands in some cases, and your presence at our meetings. If you have a problem with attending meetings, you can share the load with someone who is able to attend. there are many ways to be useful. But you need to come forward and say, "I'll help with this or that this month," or "Put me on this or that committee and I'll come when I can and call you when I can't."

Too few of us have run this organization for too long. We love our jobs, and we love doing them for you. But we'd like just a little more help.

Friends become friends when they realize a way of helping each other, and carry it out on a regular basis. We, your Executive Committee, are fast friends with each other. We get along famously. We'll make an effort to get along with you, too, if an effort is required. But we need your input and your cooperation. Please come on board and help us be as active a User Group as we possibly can.

So much for the soap box lecture.

On the other hand, the good news is that MacWorld is coming to New York City again on July 21, 22, and 23. We're planning another bus trip like last years, through the Humanities Club at the college. Let us know of your intentions in this regard at the earliest possible date. We'll need to plan for the buses.

## Members On Line

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\*New listings.

Are you on line? Please let us know.  
If you are, you should be listed here!

## World Wide Web Sites of Interest

*If you find a neat one that you think someone else would enjoy, please e-mail the URL to nathan@voicenet.com (with a little note, please).*

**Apple Software Updates** .....macintouch.com  
**Apple Seminar Registration**  
 www.seminars.apple.com

**Macintosh resource** .....www.macworld.com

**Biorhythm Chart**  
 www.Facade.com/occult/biorhythm/

**Computer Classes at Gloucester County Library** .....www.gloucester.lib.nj.us

**Free download of video and audio files**  
 www.mwmusic.com/home.html

**Electronic Greeting Cards**  
 www.bluemountain.com

**Emulation software downloads (Apple, Atari, Commodore)** www.emulation.net

**Installation techniques** .....www.judyrat.com

**Jefferson Project** .....www.voxpop.org/jefferson

**Light on the Mac Side** .....www.techweb.com:  
 3040/wire/news/1997/12/1205mactales.html

**MacCrusader** <http://www.tiac.net/users/gssc>

**Mac Sightings** .....http://come.to/mac.sightings

**Mac4Sale** .....www.mac4sale.com

**Message Board Service** .....http://macforum.net

**MUGSNJ** .....www.jersey.net/~mugsnj

**Try it, you'll like it**  
 boole.stanford.edu/nerdsheaven.html

**UGMUNP page (Fred Shower)**  
 www.user-groups.com/MUNP/

**OS 8.5 Theme Archive**—unofficial repository for  
 Sound Sets, Themes, and tools:  
 http://themes.hellyeah.com/index.html

**For Kids and Teachers—How Stuff Works—**  
 http://www.howstuffworks.com/

**Installing Mac OS 8.5 on your Mac—**  
 <http://www.macnn.com/MacTips/>

**New Graphic Converter—**  
 http://www.cat.uc.edu/dave/mirror/GC.html

**Macintosh Freeware and Shareware—**  
 http://www.execpc.com/~rjohnson/  
 graffix/software/"> Graffix

**Rules for Revolutionaries**  
 <http://www.kickbutt.com/>

**Internet humor:**  
 http://www.slea.com/safehaven/50\_things.html

**Check Out Your Own Personality!**  
 <http://www.ullazang.com/personality.html>

# Apple, Compaq, Matsushita (Panasonic), Philips, Sony and Toshiba Announce Support For IEEE1394

## Plans To Form Patent Pool

Apple Computer, Inc., Compaq Computer Corporation, Matsushita Electric Industrial Co., Ltd. (Panasonic), Royal Philips Electronics, Sony Corporation and Toshiba Corporation today announced their support of the high-speed IEEE1394 digital interface and their intention to form a patent pool to efficiently license patents required to implement the standard. The six companies will work together to create a joint licensing program and promote the industry-wide adoption of IEEE1394.

"IEEE1394 is poised to become the most widely used industry standard to interconnect consumer electronics and personal computer devices," said Steve Jobs, Apple's interim CEO. "We want to pave the way for both the consumer electronics and the personal computer industries to adopt this powerful digital interface."

IEEE1394 was invented by Apple and was adopted by the Institute of Electrical and Electronics Engineers (IEEE) as an industry standard in 1995. Offering data transfer rates up to 400 megabits per second, IEEE1394 has become the standard for transferring digital video, and over three million digital camcorders with built-in IEEE1394 have been sold to date. IEEE1394 is being incorporated into an ever-increasing array of consumer multimedia devices, such as set-top boxes and digital VCRs, and is poised to become the next generation industry-standard for connecting personal computers to high-speed peripherals such as printers, scanners and disk drives.

"Compaq supports the wide adoption of IEEE 1394 technologies and the efforts of the 1394 patent consortium. We believe that this alliance will ensure acceptance of this standard throughout the personal computer and consumer electronics industries by making the licensing of the key technologies easy and affordable," said Jerry Meerkatz, vice president of Compaq Corporation's

Commercial Desktop Division. "The world is evolving into a digital-based workplace and these technologies will allow for broader connections between digital consumer electronics equipment and personal computers, making it easier to use products." "We believe that this agreement will accelerate the networking of digital audio/video and computer

*(Continued on page 14)*

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## Members Whose Dues are Due

<u>NAME</u>	<u>EXPIRATION DATE</u>
Judy Cagle . . . . .	2/28/99
Carol Catalano . . . . .	2/28/99
Peter Ciancia . . . . .	2/28/99
Russ Dersch . . . . .	2/28/99
Denise D'Acqua . . . . .	12/31/98
Cy Felheimer . . . . .	3/31/99
Nathan Gable . . . . .	2/28/99
Ken Griffin . . . . .	2/28/99
Jim Grimes . . . . .	11/30/98
Mamie Gummoe . . . . .	3/31/99
Cindy Herd . . . . .	11/30/98
Gayle Hughes . . . . .	2/28/99
Ernest Koziel . . . . .	2/28/99
Darren Leary . . . . .	2/28/99
Richard Miller . . . . .	1/31/99
Karl Miller . . . . .	3/31/99
Mike Pino . . . . .	3/31/99
Kevin Pyles . . . . .	3/31/99
Julia Rosenthal . . . . .	2/28/99
Chimene Ruffin . . . . .	3/31/99
Dawn Santo . . . . .	1/31/99
Frank Simms . . . . .	2/28/99
Bill Southworth . . . . .	2/28/99
Patricia Spence . . . . .	3/31/99
Bob Watts . . . . .	2/28/99

# What is FireWire?

## What is IEEE 1394?

FireWire is a new, high-speed standard for connecting peripherals such as digital video cameras and hard drives to both consumer and high-end computers. FireWire is extremely fast, and promises more bandwidth than any other device interface available today in its class. IEEE 1394 is the official name for the standard. FireWire, IEEE 1394, and 1394 are all synonymous, however vendors must obtain a license from Apple in order to use the term FireWire for their products. Another, more general name for FireWire is the High Performance Serial Bus.

### *Why was it developed?*

FireWire was originally developed by Apple Computer as a future complement or replacement for the SCSI bus. FireWire satisfies all the needs of the rapidly growing computer industry, and provides a small, easy to use, hot-pluggable system for connecting devices to a computer. FireWire was also developed to fill the gaps that other interfaces left behind. For example, a chain of FireWire devices can coexist between two computers, defying the master/slave model set forth by previous interfaces such as SCSI. Multimedia was recognized as a large branch of the future of computing, and a capable, speedy, and reliable interface model was deemed as necessary. Hence, FireWire was developed.

### *Who is responsible for FireWire?*

As with many of today's emerging technologies, Apple Computer was the original developer of IEEE 1394, and owns the rights to the term FireWire. Recognizing its place in the multimedia world, Apple wanted to develop an interface capable of transferring full motion video, and make it available and affordable for the consumer. After the initial developmental stages, FireWire was advanced through the IEEE 1394 Working Group. After much work and consideration, a flexible standard was reached, and FireWire became a reality.

### *What is FireWire's niche?*

FireWire plays a role in both consumer and high-end computing models. However, as its name indicates, it will be used mainly for devices which require high-speed transfers. Candidates include, but are not limited to, digital video cameras, hard drives, removable media drives, and high-end printers. In many respects, FireWire will flourish in multimedia-heavy environments, such as the color publishing industry. Even so, it doesn't limit FireWire's possibilities in the consumer market—many users will want the capability to edit family vacation videos, for instance. In essence, FireWire will be seen in both professional and consumer markets, even though many of the first FireWire applications are aimed at the high-end industry.

### *How fast is FireWire?*

To be concise, FireWire is aptly named—it's fast. FireWire supports a variety of speeds, the most common being 100Mbps, 200Mbps, and 400Mbps. Keep in mind that the b in Mbps is lowercase, standing for bits, not bytes, as a capital B would. So, 400Mbps is the same thing as saying 400 Megabits per second. As one can see in the following questions, FireWire really screams. How fast is FireWire compared to other I/O standards? The following is a list of common I/O standard buses and their maximum theoretical speeds. Also, keep in mind that a megabit per second is 1000 times faster than a kilobit per second. Interfaces are listed from slowest to fastest.

- Apple Desktop Bus (ADB): 10Kbps (kilobits per second)
- Standard Serial Port: 230Kbps \*  
GeoPort Serial: 2Mbps (megabits per second)
- USB: 12Mbps \*    SCSI: 40Mbps (typical Mac SCSI-2 connection)
- FireWire: 400Mbps

*(continued on next page)*

## Is the bandwidth adequate for digital video?

FireWire has plenty of bandwidth to handle digital video streams from a digital video camera. To see how much bandwidth digital video requires, see the following table (thanks to Hoffman and Moore in part):

Image Size	Frames Per Second	Color Quality	Bandwidth Required
640 x 480	30	24 bit	221 Mbps
640 x 480	15	16 bit	74 Mbps
320 x 240	30	24 bit	55 Mbps
320 x 240	15	16 bit	18 Mbps

### *Will FireWire replace USB?*

FireWire is definitely not meant to serve as a replacement to USB. FireWire, on the other hand, is a compliment to USB. USB is perfect for many low-speed devices, such as input devices, scanners, and some printers. FireWire takes over in the high-speed realm, handling digital video cameras, hard drives, and other speed-intensive peripherals. FireWire and USB, therefore, will not overlap, but will compliment each other in their own respects.

As one can see, there is plenty of bandwidth for digital video over the FireWire bus. What are the key features to FireWire? FireWire has many essential features that make it attractive for high speed peripherals and devices. First of all, it's the fastest bus that's available on any market. Peaking at 400Mbps, FireWire can handle an enormous amount of activity on the bus. Another great feature of FireWire technology is the small, hot-pluggable interface. The cables aren't bulky, and you can insert and remove FireWire cables in and out of the computer at any time—even when the com-

puter is on. Magically, the device will initialize and load whenever the cable is plugged in—no restart is needed. FireWire also boasts a flexible topology [source]. Devices can be chained together, and more than one computer can be connected to the chain (called peer-to-peer communication). Moreover, a standard such as FireWire reduces the cost of manufacturing peripherals, which in turn lowers the cost for the consumer.

Furthermore, FireWire devices have no ID numbers visible to the end user, don't require terminators, and don't require special sequencing in the chain. All in all, FireWire exemplifies three key concepts: reliability, convenience, and simplicity (Apple).

### *How many devices does FireWire support?*

FireWire can also handle up to 63 devices on once chain. Although it's not as many as USB's 127 supported devices, 63 is a sufficient number even for the most demanding computer needs. In reality, a consumer would have no more than 3 or 4 FireWire devices on the chain, and chances are only 1 or 2 would be active at once.

## MacWorld Back to New York City

IDG Expo Management and Mac Publishing LLC (publisher of MacWEEK) will announce details Wednesday of July's Macworld Expo. According to both companies, the show will be held in New York's Jacob K. Javits Center instead of returning to Boston.

## GraphicConverter 3.5 Released

*by MacCentral Staff,  
email@maccentral.com*

GraphicConverter, an absolutely outstanding shareware graphics utility, has been updated to version 3.5. There are many fixes and changes noted on the Version History page. <http://www.maccentral.com/news/9812/28.gc35.shtml>

## The Japan Connection

# 46 Percent of Japan iMac Buyers Are First-Time Computer Owners

In a keynote presentation here today, Steve Jobs, Apple's interim CEO, announced that iMac is attracting new computer users and Wintel converts to the Macintosh platform in Japan. For iMacs purchased in Japan in the three months from October to December 1998, approximately 46 percent were purchased by first-time computer owners, and another 16 percent were purchased by Wintel converts—totaling 62 percent of iMac buyers in Japan that are new to the Macintosh platform.\*

"The latest market research says that 46 percent of Japanese iMac buyers are first-time computer owners, which is way above the industry average," said Steve Jobs, Apple's interim CEO. "This flood of new users entering our installed base is tremendous news for Apple and every Macintosh software developer."

Apple also announced that its successful online store, The Apple Store, has opened its e-doors for business in Japan at [www.apple.co.jp/japanstore](http://www.apple.co.jp/japanstore). Apple now offers its customers online buying in the U.S., Japan, UK, Sweden, Belgium, France, Germany, Italy, the Netherlands, Spain and Australia.

Additionally, Apple announced that 1,559 new Macintosh software titles have been introduced worldwide since iMac debuted last May, including 901 new localized titles announced in Japan. Over 150 new USB and FireWire products have also been introduced in Japan. Leading Japanese companies such as Canon, Fujitsu and YAMAHA have recommitted to the Macintosh platform with a flood of innovative products ranging from digital cameras to magneto optical drives and printers. Many of these new Macintosh products can be seen at the Apple Booth and throughout MACWORLD Expo/Tokyo '99, which begins today at the Japan Convention Center (Makuhari Messe) in Chiba.

*\*Based on a survey conducted by Decisive Technologies, Inc. The survey results represent 4,075 iMac home and home/business buyers in Japan who purchased an iMac between October 1, 1998, and December 31, 1998.*

## 1,559 New Macintosh Software Titles Introduced Worldwide Since iMac Launch

### *901 New Localized Titles Announced for Japan*

1,559 new Macintosh software titles have been introduced worldwide since iMac debuted on May 6, 1998, including 901 new localized titles announced in Japan. With Apple introducing innovative products such as iMac and its reinvented line of Power Macintosh G3s, many of the world's top software developers have been inspired to deliver new products for the Macintosh platform in Japan.

"The amount of great new software coming out in Japan demonstrates the huge popularity of iMac and our new Power Macintosh G3s," said Steve Jobs, Apple's interim CEO. "Developers are once again realizing that Macintosh is a volume platform that really makes their software stand out, and that Japan has a vibrant and growing Macintosh community."

Major software titles introduced in Japan recently include: Microsoft Office 98 Macintosh Edition; A&A's Vector Works; Adobe Photoshop 5.0J; Adobe Illustrator 8.0J; Agenda's Atena Syokunin; ERGOSOFT's EG Word Pure 4.0; Expression Tools' iShade; JUSTSYSTEMS's ATOK 12; Macromedia Director 7; Mediavison's Mac Tools ver.5; Quark Xpress 4.0J; and Shockwave Internet Studio J.

"Microsoft is very enthusiastic about developing great products, like Office 98, Internet Explorer and Outlook Express 4.5 for Apple's new consumer and Pro machines," said Ben Waldman, general manager of the Macintosh Business Unit, Microsoft Corporation. "As the leader in software development for the Mac, we are committed to continued development of innovative products that feature a combination of simplicity and power our 10 million Mac customers expect."

*(continued on next page)*

# Apple's Online Store Opens its E-Doors in Japan

The Apple Store has opened its e-doors for business in Japan at [www.apple.co.jp/japanstore](http://www.apple.co.jp/japanstore). Japanese customers can now purchase the latest Macintosh hardware and software direct from Apple over the Internet, including Apple's best-selling iMac and powerful new line of stunningly designed Power Macintosh G3s.

"Our online store will complement Apple Japan's other sales channels and give our customers the option to order products over the Internet from the convenience of their home or office," said Eikoh Harada, president, Apple Japan. "With iMac already a best-seller in Japan, we think The Apple Store will quickly become one of the most popular e-commerce sites in the country."

Open 24 hours a day, seven days a week, The Apple Store stocks a full line-up of products including: iMac; Power Macintosh G3; PowerBook G3; Macintosh Server G3; and Apple Studio Displays, as well as Mac OS system software; networking products; and Apple software applications. Powered by WebObjects, Apple's market-leading application server software, The Apple Store is easy to navigate and use, offering customers a well designed and simple online shopping experience.

The Apple Store's debut in Japan is the latest roll-out for the popular online store. Operating successfully in the United States since November 1997, The Apple Stores are online in the UK, Sweden, Belgium, France, Germany, Italy, the Netherlands, Spain and Australia. In Europe, The Apple Store has been among the first e-commerce sites to embrace the new European common currency, with net prices on all products quoted in Euros as well as local currencies.

The Apple Store in Japan is taking orders today and can be found at [www.apple.co.jp/japanstore](http://www.apple.co.jp/japanstore). Pricing for products include:

- iMac (266MHz/32 MB RAM; available in Blueberry, Strawberry, Grape, Tangerine and Lime), . . . ¥158,000
- Power Macintosh G3 (300MHz/64MB RAM), . . . ¥213,000

- Power Macintosh G3 (350MHz/64MB RAM), . . . ¥267,000
- Power Macintosh G3 (350MHz/128MB RAM), . . . ¥333,000
- Power Macintosh G3 (400MHz/128MB RAM), . . . ¥400,000
- PowerBook G3 (233MHz/ 14"/32 MB RAM), . . . 288,000
- PowerBook G3 (266MHz/14"/64 MB RAM), . . . ¥348,000
- PowerBook G3 (300MHz/14"/192 MB RAM), . . . ¥458,000
- Macintosh Server G3 (350MHz/128MB RAM), . . . ¥440,000
- Macintosh Server G3 (400MHz/256MB RAM), . . . ¥667,000
- Apple Studio Display 17", . . . ¥61,900
- Apple Studio Display Flat Panel 15", 139,000 Mac OS 8.5, . . . ¥13,800

## Apple G3 Powerbook Makes Guinness Book of Records *by Webb21@aol.com*

The 1999 Guinness Book of Records lists the Apple Powermac G3 as the most powerful laptop computer in the world. In the Gadgets section, page 174, there's a world record to be proud of. Check it out.

### Business Meeting

The Executive Committee conducts a monthly business meeting in the lounge area adjacent to Room 502 in the Allied Health and Technology Building of the GCC campus on the Wednesday before each monthly General Meeting. All interested members are encouraged to attend.

If you have ideas or opinions that you would like to share with the Board, you, as a dues-paying member, are encouraged to participate in these meetings.

*Your opinion is important to us. This is **your** Users Group. Get involved!*

# Users Group Alliance Magazine Discounts

MUGSNJ Members qualify for special rates on computer magazines. These rates are equal to or better than those offered to students, educators, professionals, or trade show attendees. Take a look and compare these prices to other new subscriber or renewal rates.

<u>PUBLICATION</u>	<u>SPECIAL RATES/NO. OF ISSUES</u>		
	<u>1 YEAR</u>	<u>2 YEAR</u>	<u>3 YEAR</u>
Advisor Publications:			
Access/Visual Basic..., Databased	\$29/12		
FoxPro..., Internet & Java	\$39/12		
Microsoft Office	\$29/12		
Lotus Notes..., PowerBuilder	\$29/6		
Byte	\$15/12	\$28/24	\$42/36
Computer Gaming World	\$15/12	\$28/24	\$42/36
Computer Life	\$13/12	\$24/24	\$36/36
Computer Player	\$15/12		
Computer Shopper	\$20/12	\$40/24	\$60/36
Computerworld	\$42/51	\$80/102	
Corel Magazine	\$37/12		
Data Based Advisor	\$37/12	\$60/24	
EGM2	\$12/12	\$22/24	\$32/36
Electronic Gaming Monthly	\$12/12	\$22/24	\$32/36
Electronic Learning	\$15/8	\$28/16	
FamilyPC	\$10/12	\$18/24	\$27/36
Home Office Computing	\$10/12	\$18/24	\$27/36
HomePC	\$12/12	\$22/24	
Internet Business Report	\$375/12		
Internet Search	\$200/12		
Internet World	\$12/12	\$22/24	
Internet Shopper	\$12/6		
Mac Home Journal	\$15/12	\$28/24	
MacWorld	\$15/12	\$28/24	\$42/36
Mobile Computing & Communications	\$12/12	\$23/24	
Microsoft Systems Journal	\$45/12		
OS/2 Developer	\$38/12		
OS/2 Magazine	\$38/12		
PC Computing	\$13/12	\$24/24	\$36/36
PC Gamer (w/o CD-ROM)	\$18/12	\$35/24	\$42/36
PC Gamer	\$18/12	\$35/24	\$42/36
PC Games	\$10/12	\$18/24	
PC Games (w/CD-ROM)	\$18/12	\$34/24	
PC Magazine	\$26/22	\$50/44	\$72/66
PC Magazine CD-ROM Edition	\$45/4	\$90/8	\$135/12
PC Portables	\$13/12	\$25/24	
PC Today	\$27/12	\$48/24	
PC World	\$15/12	\$28/24	\$42/36
Publish	\$20/12	\$35/24	\$50/36
Smart Computing	\$24/12	\$42/24	
SoftDisk PC	\$20/4		
Technology & Learning	\$16/8	\$30/16	
The Net (w/o CD-ROM)	\$17/12		
Unix Review	\$50/12		
Web Bound	\$25/4	\$49/8	\$72/12
Windows Magazine	\$13/14	\$25/28	
Windows Magazine (CD-ROM Edition)	\$45/4		
Windows Sources	\$15/12	\$28/24	\$42/36
Wired	\$23/12		
Yahoo! Internet Life	\$13/12	\$25/24	\$36/36
ZD Internet Magazine	\$13/12	\$25/24	\$36/36

You must provide proof of your current user group membership, e.g., membership card, newsletter mailing label, etc. If you are renewing or extending a subscription, please provide a copy of your magazine mailing label or renewal notice. Renewals take 2-3 months to clear, so please renew 5 months before the expiration date on your mailing label. New subscriptions should begin within 3 months of placing an order. If you qualify for a better rate than what is listed and you can provide proof, we will match the better rate. Availability, rates and subscription terms are subject to change. Over 1,500 additional titles are available; many have discount rates. Please call or write to request a list. We will gladly answer any questions you may have about this offer. Please call 215-927-0463 before ordering. You can communicate with us via fax at 215-549-7777 or via e-mail at UserGroups@aol.com. Circle your selection(s). Send only check or money order, made payable to: UGA. Orders will be confirmed by mail or email.

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## Disney, Pixar, and Apple Computer?

*Continued from page one)*

the entertainment industry. Of course, as a respected industry visionary, Jobs has more up his sleeve than most could even imagine.

### ***Details, Details, Details***

By the end of the week, and possibly even today, Disney, Apple, and Pixar may announce what will amount to be a three-way multibillion dollar, multi-company, mega-merger in which Disney would acquire both Pixar and Apple.

The agreement also reportedly calls for both Apple and Pixar to become independent divisions within Disney. This would allow Disney to leverage the strong Apple brand name in an effort to get technology into the hands of the mass market.

As part of the agreement, Jobs would become CEO of Disney, effective June 7th, 1999. Jobs would be charged with leading Disney, the new Pixar-based interactive studios division (headed by John Lasseter), and the Apple computing/technology division. Michael Eisner, who has been preparing to step down as CEO of Disney due to health concerns (originally prompted by a heart attack a few years ago), would reportedly remain the Chairman of Disney's Board of Directors.

### ***Money, Stock, Compensation***

According to sources, the deal will be completed in a stock swap worth more than \$12 billion dollars (at current market estimates), with no cash exchanged. Both Apple and Pixar shareholders would receive Disney stock in exchange for their current holdings. Although the exact amount may vary with current market prices, estimates are that Disney will pay out nearly \$7 billion in stock for Apple. (AAPL is currently valued at 37 11/16 as of 02/15).

Jobs reportedly stands to gain as much as \$5 billion in Disney stock—which can be attributed to his significant stake in Pixar. His stake, which amounts to more than 60 percent of the company is currently valued at \$1.3 billion. But more importantly, Jobs will be in the ultimate position to guide, shape, and create a vision for technology and people around the world.

### ***Where to go from here...***

While more details of the agreement were not immediately available, at least

two sources have confirmed that Jobs and many members of the Apple Executive team have spent much of the past 10 days at Disney's headquarters in Burbank, California, working on the details of this landmark agreement.

It seems clear that Disney has a lot to gain from having Pixar in house, particularly given the close relationship between the two. Although the specific strategic importance of Apple to Disney is still unclear, Apple's leadership in the creative markets and strong brand name in the computer industry can surely help Disney achieve its overriding objective "to create shareholder value by continuing to be the world's premier entertainment company from a creative, strategic, and financial standpoint."

The addition of Pixar into the Apple-Disney equation helps put together some of the puzzle pieces which have floated around without any logic or rationale; and may provide the missing link that would bring Jobs, Apple, and Disney together.

### ***More details Coming "very soon"***

As our source suggested, this is probably closer to reality than any other buyout rumor yet circulated and may, in fact, surface in today's editions of major mainstream publications.

With the Disney shareholder meeting quickly approaching (next week, February 23rd), Apple's somewhat low-key (and premature), release of its highly touted Java Virtual Machine, MRJ 2.1, and Jobs's expected keynote at Macworld Expo Tokyo '99 on Wednesday night (Eastern Standard Time), we expect details on the emerging deal—confirmation or otherwise—to surface very quickly.

If true, this would be a momentous turn in the evolution of the computer industry, as all three companies will be poised to change the future of computing, interactivity, and entertainment using cutting edge Apple technology.

NOTE: the numbers outlined here may vary substantially with market conditions, may depend on the day any agreement would be executed, and may reflect uncertainties with regards to ongoing negotiations.

From the 'Net

# MACWORLD DAILY TIPS

by Chris Breen

## ***Beginner***

Surely you know that if you hold down the Option key while selecting the Apple menu you'll see that About This Computer has changed to About The Finder, but did you know that if you hold down the Control-Option-Command keys under Mac OS 8.5 and select the Apple Menu, the first item in this menu changes to About the Mac OS 8.5 Team...?

## ***Beginner***

One of the finest little pieces of shareware is back—Jim Leitch's AddressBook. Jim originally wrote AddressBook as a small but powerful desk accessory for storing and sorting names, address, and phone numbers. Regrettably, Jim passed away but his work lives on in the latest update to AddressBook, version 4.0.4, upgraded to work with current system software by Jim Smith.

In addition to storing addresses, AddressBook allows you to print envelopes, export to mail merge and databases, and offers a call timer. AddressBook costs \$30 and can be found at <http://www.macdownload.com>.

## ***Beginner***

One of the most popular Exclusive utilities from MacUser days has recently been upgraded. Mark Kene's \$20 shareware automation utility T-Minus Ten is back and better than ever. Mark says it best in this introduction:

"T-Minus Ten will launch your computer into new realms of automation. Configure hot keys and hot spots to drive applications, scripts and documents with ease. Its most powerful resource is a convenient timer function which provides an off-hours auto-pilot for your Macintosh, sets handy reminders, runs back-up scripts, or creates customizable sets of file launches. Combined with AppleScript, you can use T-Minus Ten to control every detail of your computing day, launching anything double-clickable, and fine tuning that golf game while your Macintosh flies its own missions."

You can find T-Minus Ten at <http://www.macdownload.com>.

## ***Intermediate***

If you're one of those cutting edge—and cash-heavy—souls who purchased a Rev. A flat-panel Apple Studio Display, it's likely that you're also in the market for a new blue and white Power Mac G3.

When you finally lay hands on one of these two-toned wonders, be sure to use the video adapter (part number 590-1120-A) that came with the computer. If you use the adapter that originally came with the Studio Display you'll be unable to display the proper monitor options in the Monitors & Sound control panel.

## ***Beginner***

Okay, so the title's a little misleading. No, we're not giving away free RAM. Rather, we'd like to tell you about a utility that indicates how much free RAM your Mac has available.

The utility is called—appropriately enough—FreeRamPlus 1.2 and when launched, produces a small window that reveals how much RAM you have available to you. Ah, but wait, there's more to Charles Marlowe's \$15 utility. FreeRamPlus will also automatically open floppy disks when they're inserted and indicate how much free space is available on one of these soon-to-be-obsolete bits of media. Additionally, the utility can cause the Trash to automatically empty when you drop something onto the Trash icon.

You can find your copy at <http://www.macdownload.com>

## ***Beginner***

You can easily scroll around a window in the Mac OS 8.5 Finder by holding down the Command key and dragging your cursor around the window. Dragging down causes the window to scroll down and dragging sideways—as you might expect—scrolls the window to the side. Diagonal scrolling works too.

## Jobs to Keynote Developer Conference

(Continued from page 1)

must—attend event for developers seeking to enhance their applications and their profits.”

The WWDC will include technical tracks on Mac OS, Mac OS X, Carbon, the Internet, Java, QuickTime, AppleScript, ColorSync, WebObjects, Universal Serial Bus (USB), FireWire and AltiVec. For the first time, the conference will feature special sessions for Adobe Photoshop and QuarkXPress plug-in developers, and there will also be business presentations outlining Apple's marketing programs and sales strategies.

### Cost & Registration

Developers worldwide can register today for the conference at ([www.apple.com/developer/wwdc99](http://www.apple.com/developer/wwdc99)). The cost of the five day conference is U.S. \$995 per attendee who pre-registers by April 16, or U.S. \$1,295 for those registering after April 16. Global in nature, Apple's 1999 WWDC will feature Japanese and European language translation of keynotes and tracks for the large number of international developers expected to attend.

## Address Grabber Transfers Address Books Between E-Mail Applications

Time saving TIP to present to your user group: With AddressGrabber you will be able to transfer the entire address below into fields in your address book in just one click!

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Let Software MAGICALLY extract all fields and transfer them into fields in ACT!, GoldMine, Outlook, PalmPilot and 30 other address books.

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## CLASSIFIED

The Classified Ad Column is a service offered free to members. All other ads accepted will be subject to a minimum charge of \$5 per 5-line (maximum) entry per issue. Member's ad July run until the item is sold (please advise!). The editor reserves the right to abbreviate to conserve space.

### FOR SALE

**Quark XPress, Version 4.0.** Mac OS. Still in sealed box. **\$350.** Call **Cesar Muniz, 728-5361.**

**2 PowerBooks for Sale:** PB 170 w/ 4MB RAM, 40MB HD, B&W Active Matrix Monitor. \$400 VALUE, only \$300. PB 145B w/ 4MB RAM, 170MB HD, B&W Dual Scan Monitor. A \$450 value, only \$350! Duo Dock also available. Make offer. **E-mail: sheairs@hotmail.com**

**Apple II Extended Keyboards (2),** brand new, still in box. **\$60.00 each.** Ginni Gormley [<gormley@willie.salem.cc.nj.us>](mailto:gormley@willie.salem.cc.nj.us)

**Quadra 660 AV,** 64MB RAM, ext. CD and 1GB HD. Photoshop4, Illustrator7, Painter4, Freehand7. Best offer. E-mail [<MEGBBG@juno.com>](mailto:MEGBBG@juno.com), phone **567-3173.**

**For Sale: FWB Hard Disk Toolkit v2.5 w/ manuals: \$30.00;** [phranky@jersey.net](mailto:phranky@jersey.net), or 795-8311. ask for Frank.

**Performa 6360,** 160 MHz, 32 MB RAM, 1.2G HD, 8x CD-ROM, int. 28.8 Modem, OS 8 installed, ext. speakers, HP550C Printer, Good cond. **\$750 or B/O.** **LC III,** upgraded to 68040 processor, 500MB HD, 16 MB RAM, 13" color monitor, keyboard, mouse. **\$250 or B/O.** Call **Steve at 428-5943** or lv. msg. at **428-5913.**

## Free Internet Connection Service

Tell your friends— [<A HREF="http://www.netzero.net/">](http://www.netzero.net/)

NetZero "FREE" Internet Connection Services</A> Free internet connections! Really free...

I have a few friends in NY who use this and recommend it (no local numbers for me, of course)

# MacWorld Expo Set for New York

*By Matthew Rothenberg*

It's official: Macworld Expo is headed back to New York.

IDG Expo Management Co. today announced that the show will be held July 21-23 in New York's Jacob K. Javits Convention Center.

According to the company, the decision to present the annual Mac trade show for a second year in New York

instead of its Boston birthplace was prompted by the desire to hold the show in a single venue.

"Many of our customers and developers live in or near New York City," said Apple interim Steve Jobs in a prepared statement. "We are bringing Apple to New York this July, and we look forward to the Macintosh community rallying around us."

"Moving Macworld Expo to New York makes a very significant statement about the current health and long-term growth opportunities in the Apple Macintosh marketplace," said Colin Crawford, president and CEO of Mac Publishing LLC, which sponsors the show.

IDG Expos said the show will include a 20,000-square-foot Apple booth as well as more than 250 exhibits by companies such as Adobe, Connectix, Epson, FileMaker, Hewlett Packard, Mac Publishing LLC, Microsoft and Palm Computing.

The show will feature the twin track consumer and professional conference programs and will feature a town meeting with industry experts analysts and Apple executives, IDG Expos said. The show floor will include the National Macintosh Gaming Championship and the Education District as well as the Consumer Showcase and Net Innovators, both of which were featured at January's Expo in San Francisco.

Mac Publishing LLC publishes MacWEEK .com, Macworld magazine, Macworld Online and iMacworld.

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## Support for IEEE1394

*(Continued from page 6)*

related products along with the wide spread of IEEE1394 technology, bringing greater benefits to consumers," said Dr. Yoshitomi Nagaoka, vice president of Matsushita Electric Industrial's Divisional AVC Company.

"IEEE1394 offers a simple standard connection for consumers so that they can easily connect all kinds of consumer electronics and PC products. Its high speed makes it the viable digital interface for advanced real-time multimedia applications in the home network environment," said Eddy Odijk, general manager, Systems Architectures, at Philips Consumer Electronics. "We are confident that licensing initiatives will fuel rapid adoption of IEEE1394 throughout the CE and PC industries."

"Sony leads the industry in the implementation of the IEEE1394 technology under the familiar i.LINK name and logo," said Kunitake Ando, president of Sony Corporation's Divisional Information Technology Company. "Today's agreement solidifies IEEE1394's position as the industry standard digital interface connection for PCs, computer peripherals and digital AV products."

"Toshiba expects this patent pool to provide the whole multimedia industry with excellent opportunities for growth and diversification in the high-speed IEEE 1394 digital interface standard technologies for personal computers and consumer electronics," said Tetsuya Mizoguchi, senior vice-president of Toshiba Corporation. "We are pleased to join and promote this useful patent pool in close cooperation with the other member companies."

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## Cast Your Vote for Games

I am not really a gamer, but I sure enjoy seeing my niece playing "Dr. Seuss's Kindergarden", and I do admit to an occasional foray into Myst and Riven.

"Do you think the Mac is a viable games platform?" asks GameSpot in an instant survey. It takes only one click (OK two clicks) and Macintosh gamers everywhere need your support!

<http://www.gamespot.com/>

# MAC IN THE NEWS

## *Encarta:*

Microsoft won't update the Mac version of its popular reference products this year—and the future of Encarta for Mac is in the hands of a Microsoft planning group. No decision on when—or whether—Encarta 2000 will happen until late May or June.

## How AppleWorks Handles Y2K

by *Chris Breen*

The flipping of the millennial odometer hardly cripples AppleWorks/ClarisWorks, but you should be aware that you must treat certain years specially or you may not get the results you desire.

Prior to the year 2000, when used as dates in spreadsheet cells and database fields, the digits 11 through 99 will be recognized as 1911 through 1999. 00 through 10 will be recognized as 2000 through 2010. Beginning in the year 2000, 91 through 99 will be recognized as 1991 through 1999 and 00 through 90 will be recognized as 2000 through 2090. By the time we hit 2011, all two digit dates will be recognized as belonging to the 21st century.

If you don't care for these default settings and wish to enter the 2012 while typing in the 20th century, for example, you must enter a four-digit date into AppleWorks/ClarisWorks. To allow this to happen, open the Date & Time control panel, click on the Date Format button, and check the Show Century box.

## *iMac:*

Even though it fell off the throne in December, Apple's consumer wonder topped the PC retail sales chart in the fourth quarter, according to the latest numbers from PC Data. The iMac was top seller in the retail and mail-order channel. After holding the No. 1 berth for five consecutive months, the iMac dropped behind two Compaq Presario models in December.

## *Adobe ImageStyler:*

Macromedia's Fireworks and Adobe's ImageReady get most of the attention when talk turns to powerful Web graphics tools. But Macworld reviewers say Adobe's easy-to-use and versatile ImageStyler may be most impressive of the lot.

## *Mac CPU Upgrades:*

XLR8 knows how to start a new year; it announced price reductions across the board on its MACH Speed G3 upgrade cards. Meanwhile, Sonnet Technologies said it will ship Presto PPC, a Power PC upgrade card for Apple's Quadra and Centris systems by month's end. It's also got a new card on the way for what it calls "upgrade-challenged systems."

## *SmartKeys:*

This one's for people who have trouble going forward. It's a freeware control panel extension that lets you type on a Mac as you would on a typewriter. Mactownload.com Sherlock Plug-in:

Drop this handy tool into your Internet Search Sites folder and you'll find shareware and demos you want in a snap.

## PowerBook Prices Drop

A number of very large price drops for Powerbooks are now in effect. Please contact your reseller for specific prices.

Learn more about our powerbooks at: <http://www.apple.com/powerbook/>

<b>Product</b>	<b>Description</b>	<b>Approx Price Drop</b>
Powerbooks:		
M7109LL/A	PB G3 233/32MB/2GB/CD/Enet/modem/14.1	\$150+
M7110LL/A	PB G3 266/64MB/4GB/CD/Enet/modem/14.1	\$150+
M7310LL/A PB	G3 300/64MB/8GB/CD/Enet/modem/14.1	\$650+
M7111LL/A PB	G3 300/64MB/8GB/DVD/Enet/modem/14.1	\$600+
Desktop:		
M7331LL/A	PM G3 266/64MB/4GB/CD/MSO	\$250+

## iMac Tops Retail Sales in 4th Quarter, Falls Out of Top Spot During December

New data from Reston, Virginia-based PC Data says that the candy-colored Apple system was the top seller in the retail and mail order channel during the quarter, accounting for 6.2 percent of all unit sales and 7.2 percent of dollar volume.

The iMac stayed in the top five for five months straight, said Stephen Baker, research analyst at PC Data, but it was beaten out by two Compaq Computer Corp. (NYSE:CPQ) Presario models in December.

Still, the iMac has managed to grab six percent of total unit sales since its introduction in mid-August, he said.

But those numbers could start dropping, now that the company has released five different versions of the system, in five different colors, he said.

"The way we track it right now we consider each color a different item, so they're beginning to look more like a PC line than a single stand-alone [unit]," he said. "I would be surprised if an individual color had the kind of sales [of the original]. That doesn't mean if you take them all together you might not get a substantial number."

Baker also pointed out that there was enormous pent-up demand for the original iMac.

"The question now is whether the follow-on will be as strong as the original," he said. Still, the iMac's success proves that "there's no question [Apple will be] a strong player. They've certainly come back and they're out there now. I don't see that changing at all."

The December figures also revealed the strength of the super low-end PC market, Baker said.

Upstart emachines Inc., which showed off \$399 and \$499 systems at Comdex this year, grabbed the number four spot in December with its \$499 etower, featuring a 333-Mhz Cyrix processor.

But they may have a harder sell going forward.

"It's a question of whether Compaq and Packard Bell - who have been the most focused at those price points - want

to get down and dirty with emachines," Baker said.

Top selling PCs for the fourth quarter  
 1. Apple iMac 2. Compaq Presario 5170  
 3. Compaq Presario 5150 4. Compaq Presario 5050 5. Hewlett-Packard 6355  
 Source: PC Data

Top selling PCs for December  
 1. Compaq Presario 5170 2. Compaq Presario 5150 3. Apple iMac 4. emachines etower 5. Compaq Presario 2266  
 Source: PC Data

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## TechTool Offers Special Discount

*Jeff Baudin, jeff@micromat.com*

MicroMat Incorporated, makers of the TechTool(R) Pro troubleshooting utility, would like to extend a special offer to all Evangelistas. You can now get TechTool Pro for only \$59.95 which reflects almost a \$100 discount from the program's retail price of \$150.

TechTool Pro, which offers features like those found in Norton Utilities (drive repair, recovery and optimization), takes Macintosh troubleshooting to the next level by offering tests for the entire computer system. The program tests RAM, modems, internet connections, system files, major components, mechanisms and many more aspects of the user's computer system. TechTool Pro recently received an Editor's Choice award from MacToday magazine for Best Maintenance and Repair Utility. In a recent comparison review conducted by MacHome Journal magazine, TechTool Pro was recommended above Norton for its reliability and breadth of features.

This is a limited time offer which will only be available between February 1, 1999 to April 30, 1999. This offer is only available directly from MicroMat. There is an additional charge for shipping and handling. California residents must pay state sales tax.

Company Contact Info: 800-829-6227 707-837-8012 [www.micromat.com](http://www.micromat.com) [sales@micromat.com](mailto:sales@micromat.com)

# THE Y1K CRISIS

Canterbury, England. A.D. 999.

An atmosphere close to panic prevails today throughout Europe as the millennial year 1000 approaches, bringing with it the so-called "Y1K Bug," a menace which, until recently, hardly anyone had ever heard of. Prophets of doom are warning that the entire fabric of Western Civilization, based as it now is upon monastic computations, could collapse, and that there is simply not enough time left to fix the problem.

Just how did this disaster-in-the-making ever arise? Why did no one anticipate that a change from a three-digit to a four-digit year would throw into total disarray all liturgical chants and all metrical verse in which any date is mentioned? Every formulaic hymn, prayer, ceremony and incantation dealing with dated events will have to be re-written to accommodate three extra syllables. All tabular chronologies with three-space year columns, maintained for generations by scribes using carefully hand-ruled lines on vellum sheets, will now have to be converted to four-space columns, at enormous cost. In the meantime, the validity of every official event, from baptisms to burials, from confirmations to coronations, may be called into question.

"We should have seen it coming," says Brother Cedric of St. Michael Abbey, here in Canterbury. "What worries me most is that THOUSAND contains the word THOU, which occurs in nearly all our prayers, and of course always refers to God. Using it now in the name of the year will seem almost blasphemous, and is bound to cause terrible confusion. Of course, we could always use Latin, but that might be even worse—The Latin word for Thousand is Mille which is the same as the Latin for mile. We won't know whether we are talking about time or distance!"

Stonemasons are already reported threatening to demand a proportional pay increase for having to carve an extra numeral in all dates on tombstones, cornerstones and monuments. Together with its inevitable ripple effects, this alone could plunge the hitherto-stable medieval economy into chaos.

A conference of clerics has been called at Winchester to discuss the entire issue, but doomsayers are convinced that the matter is now one of personal survival. Many families, in expectation of the worst, are stocking up on holy water and indulgences.

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## MORE TIPS

### *Intermediate*

One of the highlights of the recent Macworld Expo was Connectix's Virtual Game Station—a product that allows your PowerMac G3 to play Sony PlayStation games under emulation. Problem is that VGS supposedly won't work with G3 upgrade cards. This is and isn't correct.

It is correct because for games to run smoothly, you need the kind of fast system bus found in stock G3 Macs—including desktop, PowerBook, and iMac models—and a RAGE Pro graphics chipset. And it isn't correct because even without a RAGE Pro you can run VGS.

An Australian reader, Tony Sullivan from St. Kilda, Vic., explains that all you need to do is install the Universal ATI drivers into your Extensions folder. As long as

VGS sees these drivers, VGS will launch.

Note that Connectix wasn't kidding when it said you need a fast system bus. I tried VGS with a 266MHz NewerTech G3 upgrade card in a PowerMac 6100/66 and PlayStation games played terribly—lots of jittery sound and strobing graphics. However, owners of PowerMacs with faster system buses and G3 upgrade cards may have better luck.

**"Apple Macintosh—we may not have got everything right, but at least we knew the century was going to end."**

*—Douglas Adams, author of Hitchhiker's Guide to the Galaxy, on his proposed commercial for Apple.*

# Apple Unveils Major New Release of Java for Macintosh

## Java Performance Now Five Times Faster

Apple Computer announced a major new release of its Java Virtual Machine (JVM) for Macintosh which is up to five times faster than previous versions of Java on Macintosh, based on industry standard CaffeineMark3 benchmarks. The new release, named MRJ 2.1, is available for free downloading from Apple's web-site ([www.apple.com](http://www.apple.com)) beginning today.

"Customers will immediately notice the significant performance improvements in MRJ 2.1," said Avie Tevanian, Apple's senior vice-president of Software Engineering. "And its designed to run real-world Java applications from companies such as Autodesk, Oracle, SCT, and Zero G Software."

MRJ 2.1 is based on Java Development Kit (JDK) 1.1.6 from Sun Microsystems, and allows Macintosh developers to extend the capabilities of Java applications by coupling them with core Apple technologies like QuickTime and AppleScript. The new MRJ2.1 features:

—Symantec's high-performance Just In Time (JIT) compiler for Java, as well as enhanced graphics, imaging, threading and networking performance which make MRJ 2.1 up to five times faster than its predecessors.

—Compliance with Sun's JDK version 1.1.6, bringing new Java features to Mac OS and maximum Java compatibility with the current generation of Java applications.

—AppleScript support, enabling Java applets to work with other AppleScript applications.

—Support for QuickTime for Java, which will be in the next release of QuickTime.

—Support for Swing, a user interface toolkit which brings the Macintosh "look and feel" to Java applications.

Mac OS Runtime for Java 2.1 requires a PowerPC-based Apple Macintosh computer, Mac OS 7.6.1 or later, and at least 32 MB of RAM.

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## LinuxPPC Live 4.0

LinuxPPC Live is a special version of LinuxPPC Release 4 that can be booted from the Mac OS without having to partition your hard drive! Live includes the K Desktop Environment (a GUI), and basic disk utilities and commands—just about everything you need to start learning Linux!

Live does not have all of the software included in the full version of LinuxPPC 4.0, and should be thought of as a demo version. Any changes that you make to the setup will be lost when you restart the computer.

Apple cannot offer individual technical support for LinuxPPC Live, but the company is observing user response and working on some fixes for common problems in Live.

**System Requirements:** LinuxPPC Live will run on any PCI-based Power Macintosh computer. If you're not sure if your Mac fits this requirement, please see the supported hardware list. Live will not

run on the iMac or Blue G3s.

**Disk Space:** LinuxPPC Live requires about 105 megabytes of free disk space, and has to be on an HFS-formatted drive. It won't work on an HFS Plus drive.

**RAM:** Linux can run in 16 MB of RAM, but we recommend 32 MB of RAM for best performance. Download instructions: Our FTP servers are extremely saturated with demand for LinuxPPC Live right now. Please use an mirror site instead of our server, especially if you live outside of the U.S.

We're working on more detailed installation documentation for Live. In the meantime, here's what you need to download, and what to do with those files: 1. Download MacGzip.hqx, and the contents of the LinuxPPC folder. 2. Once everything's downloaded, decompress the live.filesystem.gz file with MacGzip. Do not decompress the RAM disk file! To start Linux, double-click