

\$3

Volume 22, Issue 9



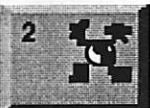
# mini'app'les newsletter

the minnesota apple computer users' group, inc.

S E P T E M B E R 1 9 9 9						
SUN	MON	TUE	WED	THU	FRI	SAT
			1  7:00	2  7:00	3	4
5	6	7 	8  7:00	9  7:00	10	11
12	13  7:00	14	15  7:00	16 7:00  7:00am	17	18
19	20  7:00	21	22  7:00	23  6:30	24	25
26	27 6:00  Mac 7:00	28	29	30	10/1	2



**AppleWorks / ClarisWorks SIG**  
Southdale Library  
70th & York, Edina  
John Hunkins, Jr., 651-457-8949



**Telecommunications SIG**  
Epiphany Lutheran Church  
1414 East 48th Street S, Mpls  
Bert Persson, 612-861-9578



**Board of Directors**  
mini'app'les members welcome.  
Byerly's  
7171 France Ave. S., Edina  
Lisa Huston, 612-861-1245



**Microsoft Word SIG**  
2850 Metro Drive Rm 124,  
Bloomington  
Tom Ostertag, D 612-951-5520 E  
651-488-9979



**Macintosh Main**  
Washburn Library;  
5244 Lyndale Avenue S, Mpls  
Denis Diekhoff,  
612-920-2437



**Apple II Novice SIG**  
Ramsey County Library  
2180 Hamline Avenue, Roseville  
Tom Gates, 612-789-6981



**Photoshop-Digital Imaging**  
Washburn Library  
5244 Lyndale Ave S, Mpls  
Denis Diekhoff, 612-920-2437



**Quicker/Investment SIG**  
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Bloomington  
Dale Strand, 612-835-5872



**Macintosh Consultants SIG**  
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7525 Wayzata Blvd  
St. Louis Park  
Bob Demeules, 612-559-1124



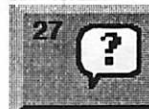
**Fourth Dimension SIG**  
8200 Humbolt Ave South  
2nd Flr. Conference Rm.  
Bloomington  
David Ringsmuth, 612-853-3024



**ResEdit / Programming SIG**  
Washburn Library  
5244 Lyndale Avenue S, Mpls  
Lisa Huston, 612-825-1245



**FileMaker Pro SIG**  
Partners, Suite 5  
1410 Energy Park Drive,  
St Paul Steve Wilmes,  
651-458-1513



**Macintosh Novice SIG**  
Merriam Park Library  
Marshall & Fairview, St Paul  
Richard Becker, 612-870-0659



**Meet Your iMac / Mac SIG**  
Merriam Park Library  
Marshall & Fairview, St Paul  
Brian Bantz, 612-956-9814



# mini'app'les

The Minnesota Apple Computer Users' Group, Inc.  
P.O. Box 796, Hopkins, MN 55343

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**Questions** – Please direct questions to an appropriate board member. Users with technical questions should refer to the Members Helping Members section.

**Dealers** – mini'app'les does not endorse specific dealers. The club promotes distribution of information which may help members identify best buys and service. The club itself does not participate in bulk purchases of media, software, hardware and publications. Members may organize such activities on behalf of other members.

**Advertisers** – For information, see Newsletter Ad Rates box within this issue.

**Newsletter Contributions** – Please send contributions directly to our Post Office, Box 796, Hopkins, MN 55343 or upload them to our BBS at 612-595-9404.

Deadline for material for the next newsletter is the 1st of the month. An article will be printed when space permits and, if in the opinion of the Newsletter Editor or Manager, it constitutes material suitable for publication.

**Editor/Publisher:** Tom Ostertag 651-488-9979

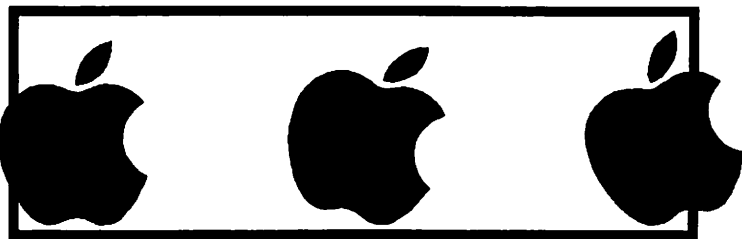
**Newsletter Layout:** John Pruski

**mini'app'les BBS** – 612-595-9404, (co-located on Twin City Interlink BBS), 24 hrs. Settings: 8-10. Call in with FirstClass® Client software or any text-based terminal program.

**mini'app'les Voice Mail** – 651-229-6952

**mini'app'les WWW site:** <http://www.miniapples.org>

**mini'app'les e-mail:** [miniapples\\_info@tcilink.com](mailto:miniapples_info@tcilink.com)



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## CHANGE OF ADDRESS

Moving? Going to be away from home and leaving a forwarding address with the Post Office? Please send us a Change of Address when you are informing others. By using a moment of your time and a few cents to drop us a card, you save the club some money and you get your newsletter delivered promptly to your new address. If you don't inform us, the Post Office puts your newsletter in the trash (they don't forward third class mail) and charges the club for informing us of your new address. Change of Address should be sent to the club's mailing address: mini'app'les, Attn: Membership Director, Box 796, Hopkins, MN 55343.

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## October 1999 Preview

Here is the tentative calendar of our Special Interest Group (SIG) meetings for September 1999. Please pencil these events on your calendar. As always, when doubtful of a SIG date, time, or location, confirm with one of the following:

- Our BBS, the Calendar Folder in the Conferences Folder
- Our Voice Mail Telephone number: 651-229-6952
- The cognizant SIG Leader

Tuesday	October 5	Board of Directors meeting
Wednesday	October 6	AppleWorks nee ClarisWorks SIG
Thursday	October 7	Telecom SIG
Monday	October 11	Apple II/GS Main SIG
Wednesday	October 13	Microsoft Word SIG
Thursday	October 14	MacintoshMain SIG
Monday	October 18	Fourth Dimension SIG
Tuesday	October 19	Apple II Novice SIG
Wednesday	October 20	PhotoShop / Digital Imaging SIG
Thursday	October 21	Quicken/Investing SIG
Thursday	October 21	Macintosh Consultants
Monday	October 25	Meet Your iMac / Mac SIG, 6:00pm
Monday	October 25	Macintosh Novice SIG, 7:00pm
Wednesday	October 27	ResEdit / Programming SI
Thursday	October 28	FileMaker Pro SIG

# Members Helping Members

Need Help? Have a question the manual doesn't answer? Members Helping Members is a group of volunteers who have generously agreed to help. They are just a phone (or an e-mail) away. Please call only during the appropriate times, if you are a member, and own the software in question.

Apple II / IIGS Software & Hardware	1, 6, 9
ClarisDraw	3
AppleWorks / ClarisWorks	2,8, 9, 10
FileMaker Pro	
FirstClass	2
HyperCard	12
MacWrite Pro	2
Microsoft Excel	3, 6, 7
Microsoft Word	6
MYOB	7
PhotoShop	4
Quicken	3, 7
QuickBooks and QuickBooks Pro	7
Mac OS 7	9
Mac OS 8	13
WordPerfect	5
Cross-Platform File Transfer	6

1. Les Anderson	651-735-3953	DEW
2. Brian Bantz	612-956-9814	DEW
3. Mike Carlson	218-387-2257	D
4. Eric Jacobson	651-645-6264	D
5. Nick Ludwig	612-593-7410	DEW
6. Tom Ostertag	651-488-9979	EW
7. Ardie Predweshny	612-823-6713	DEW
8. Owen Strand	612-427-2868	D
9. Bruce Thompson	612-546-1088	EW
10. Pam Lienke	651-457-6026	EW
11. Tom Lufkin	651-698-6523	EW
12. Ben Stallings	612-870-4584	DEW
13. Chuck Hauge	651-292-9029	D
14. Rodney O. Lain	651-452-5821	EW

D: Days, generally 9 a.m. to 5 p.m.  
 E: Evenings, generally 5 p.m. to 9 p.m.  
 W: Weekends, generally 1 p.m. to 9 p.m.

these volunteers  
 John Pruski on  
 software or hard-

New Users	1
PowerBooks	2
Classic Macs	12
Power PC 601 PowerMacs	
iMacs	14

Please call at reasonable hours, and ask if it is a convenient time for them. By the way, many of them can also be contacted on our BBS. We appreciate your cooperation.

If you would like to be a Members Helping Member volunteer, please send an e-mail message to our BBS, or call him at 612-938-2818, with your name, telephone number, contact hours, and the software areas you are willing to help others.

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Full page . . . 7-1/2" Width x 10" Height (save 15%) . .	\$60		Mail inquiries to: PO Box 796, Hopki
			Phone inquiries to: John Pruski, 61

## Save Your Time and Money - Learn a New Arbitrary Key Combo! -or- How to Salute your Power Manager when it's out to Power Lunch

By BenStallings, [ben@ofcn.org](mailto:ben@ofcn.org)

A few weeks ago I was trying to get my organization's 1993 QuickTake camera to work reliably with my 1999 PowerBook G3 when I accidentally pressed the power-off combination (ctrl-option-command-power) a few too many times in rapid succession, and my beloved laptop refused to turn back on.

At first I thought it had overheated... the PowerBook G3s contain a totally undocumented fan that runs on a thermostat, and its judgements about temperature don't agree with my own, so I don't trust it. But when the computer was good and cool again, it still wouldn't turn on.

By the time the morning was over, I'd spent nearly an hour and a half on the phone with Apple and paid \$300 for a phone support agreement... and it turned out all I had to do was press four keys. While I'm sure I'll get my money's worth from the support agreement over the next year, I'm sure not all of you would, so I'd like to share the cryptic little secret incantation that brings PowerBooks back to life.

It seems that the PowerBook G3s include a little gadget called the Power Manager that determines whether power is coming in from the battery or the AC adapter. Just like a Power Manager you might imagine in a Dilbert

comic strip, the Power Manager in your PowerBook can become confused and stop working altogether. The way to wake it up (or rather, reset it) is to hold down the fn, ctrl, option, and power keys together for three seconds.

Sure enough, when I did this the power indicator light and fan came on for a moment, then turned off, and when I pressed the power key again, presto; everything worked.

... Well, not everything. The camera still doesn't get along with Mac OS 8.5. If any of you would like to trade that secret -- which stumps Apple tech support even after \$300 -- for the one I've just related, we'll call it even!

## One Week with a G4: Sawtooth and AGP

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

So. We've seen what a difference the G4's AltiVec unit can make for 3D gaming on the Mac. Nearly as important to the everyday Quake III: Arena addict -- and the graphics professional, in 2D as well as 3D -- will be Sawtooth's other remarkable feature, the AGP graphics bus-based RAGE 128 PRO.

At the end of a trio of 64-bit PCI slots -- familiar to any Yosemite user -- sits a shorter brown slot. In it lies a prototype ATI RAGE 128 PRO graphics card, with similar muscle to today's Rev. B Yosemite, but sporting more SGRAM and more than twice the bus bandwidth.

To explore the advantages this 133MHz 2X AGP bus offers, we played both a developmental and forthcoming OpenGL-based 3D space combat game (nameless at the developer's request)...and rendered several new scenes for the game's movie sequences. The game was AltiVec-enabled; the rendering software was not.

Head-to-head with a Yosemite (500MHz G3, Firewire RAID,

384MB of RAM), the Sawtooth (550MHz G4, UltraDMA/66, 384MB of RAM) bested it by 35 frames per second, and during heavy-action sequences with large ships moving nearby and many fighters in the fray offered far superior texture quality (the game reduces textures to maintain speed) and nearly a 60 FPS lead. The game itself was still unoptimized, and the developers believe once they prepare for the G4's superior FPU, they will be able to increase the performance of any G4 Mac by another 10-15%. They also believed there was more room for AltiVec optimization if they found the time to devote to it.

The same pair of machines, along with a dual 500MHz Pentium III computer machine running Windows NT, ran head-to-head renderings of a five-minute computer-generated video sequence from the game at a resolution of 1280x1024 pixels. The Pentium III had a 100MHz motherboard, a RAGE Orion 32MB graphics card in its 2X AGP slot, 512MB of SDRAM, and a four-drive Ultra2 SCSI RAID.

The results were surprising, even considering how much we'd already been raving about the Sawtooth's performance. The Pentium III and the Yosemite were close, with the Yose only winning by about two minutes (30:42 vs. 32:47). The Sawtooth, however, even though the rendering software did not directly support AltiVec, finished at 26.03 -- nearly seven minutes minutes before the Pentium, which had 128MB more RAM and a significantly faster drive array.

We have not yet been able to gather exact MacBench numbers because of benchmark performance differences between various seeded Sawtooths, but it didn't take much of these sorts of experiences with the beautiful machine to realize what a speed demon it is shaping up to be.

This is just the beginning -- next week, we'll be picking up where we left off with insights into the stability, design, and of course performance of the G4 Sawtooth with lots of popular applications. Stay tuned!

# FreeMac.com To Be First-Ever Company To Offer One Million FREE Apple iMac Computers

Submitted by Bruce Thompson

LOS ANGELES, Aug. 3 /PRNewswire/ -- FreeMac.com will be the first company in the world to give away one million Apple iMac computers, the best selling consumer desktop computer. Company founder and CEO Jonathan Strum will introduce FreeMac.com to over 1,000 institutional investors, venture capitalists, CEOs and CFOs scheduled to attend the BancBoston Robertson Stephens Investing in Innovations Conference. The event will take place August 2-4, 1999, at San Francisco's Ritz Carlton Hotel.

Scheduled to launch in September, FreeMac.com will give away the innovatively designed and colorful Apple iMac to consumers who qualify for the FreeMac-branded Visa credit card and agree to pay the standard \$19.95 per month Internet service provider (ISP) fee for three years. Among the initial partners involved in the FreeMac.com venture are leading ISP EarthLink Network, First USA (the largest Visa and MasterCard issuer in the nation), CyberCash (Nasdaq: CYCH - news; the world leader in e-commerce technologies and services for merchants), and world famous artist Peter Max. The company's mission is to build the FreeMac community, a select group of over one million households who will be able to take advantage of discounted product and service offerings, as well as other highly targeted marketing opportunities.

Company founder and CEO Jonathan Strum explains, "One of the differentiating characteristics of FreeMac.com is that it represents an on-line lifestyle community. Members of the community will be able to create their own customized EarthLink start pages,

build free web sites, engage in e-commerce and take advantage of the full multimedia capabilities of their iMacs."

Two gigabytes of each iMac's hard drive will be reserved for exclusive multimedia content from FreeMac.com's entertainment partners. Each free iMac will also be configured with a CyberCash InstaBuy wallet, enabling instant one-click shopping at a number of on-line merchants including the FreeMac Store, VirtualVineyards.com and Borders.com.

Renowned artist Peter Max will serve as FreeMac.com's spokesperson and Chief Creativity Officer. Mr. Max will design an exclusive series of free posters, available to everyone who submits a demographic profile at the FreeMac.com Web site. He will also paint a limited series of iMac Collector's Edition computers. These one-of-a-kind iMacs will be auctioned through a major on-line auction venue, with all proceeds benefiting the National Multiple Sclerosis Society.

For the most recently completed quarter, Apple Computer sold more iMacs than at any time in the product's history. Recently, at MacWorld Expo in NY, it was announced that third-party developers introduced nearly 5,000 new Macintosh software and hardware products in the past 12 months.

Members of the FreeMac.com Advisory Board include Bill Guthy, founding principal of Guthy-Renker; Earl Greenburg, Chairman of the Electronic Retailing Association, and Drs. Sanford Ehrlich and Alex DeNoble of the award-winning Entrepreneurial Management Center at San Diego State University's Graduate School of Business.

For the latest information about FreeMac.com, contact Jonathan Strum at 310-399-8550 ext. 203.

## About Jonathan Strum

Jonathan Strum has been successfully bringing businesses to the Internet since there were just 50 Web servers in existence. As founder of Los Angeles-based Interactive Marketing Partners, Jonathan has developed winning Internet e-commerce strategies and produced award-winning state-of-the-art World Wide Web sites for a broad range of Fortune 500 clients in the entertainment, medical, retail and direct marketing industries.

An active speaker, Jonathan teaches thousands of people across the United States how to reinvent their businesses in cyberspace and fully leverage their company's virtual sales and marketing presence. Jonathan is a frequent presenter at e-commerce conferences and trade shows including Internet World, the largest Internet conference in the world. Jonathan's outcome-oriented approach toward creating an effective Internet business presence has been cited in Fortune, Industry Week, Success, Inc. and the Los Angeles Times.

As an appointee to The Mayor's Special Advisory Committee on Technology Implementation for the City of Los Angeles, Jonathan helped to design a citywide technology blueprint for the future of Los Angeles. Jonathan's column on e-commerce appears monthly in Response magazine. His company's e-commerce newsletter is distributed to over 30,000 subscribers in more than 23 countries around the world.

## About EarthLink

EarthLink is one of the world's leading Internet service providers. Through its unified EarthLink Sprint Internet access service, the company makes the Internet relevant and productive to more than 1.3 million individuals and businesses every day. Headquartered in Pasadena, EarthLink provides a full range of innovative access and hosting solutions to thousands of communities internationally from more than 2,300 points of presence. EarthLink and Sprint Corporation (NYSE: FON - news) have formed a broad business relationship to create an Internet service with the potential to reach millions of new customers. Sprint is a global communications company and one of the world's largest carriers of Internet traffic. Information about EarthLink and

EarthLink Sprint services is available through EarthLink's Web site at [www.earthlink.net](http://www.earthlink.net).

#### About CyberCash, Inc.

CyberCash (Nasdaq: CYCH - news) is a world leader in e-commerce technologies and services, enabling commerce across the entire market spectrum from electronic retailing environments to the Internet. CyberCash provides a complete line of software products and services allowing merchants, billers, financial institutions and consumers to conduct secure transactions and other e-commerce functions using the broadest array of popular payment forms. Credit, debit, purchase cards, cash, checks, smart cards and alternative payment types (e.g., "frequent buyer" or loyalty programs) are all support-

ed by CyberCash payment solutions. Leading brands of CyberCash include InstaBuy(TM), AgileWallet(TM), ICVERIFY®, PCVERIFY(TM), CashRegister, NetVERIFY(TM) and PayNow(TM).

#### About First USA

First USA (<http://www.firs-tusa.com>), a subsidiary of BANK ONE CORPORATION (NYSE: ONE - news), is the world's largest Visa credit card issuer. First USA offers credit cards for consumers and businesses under the First USA, First Card and Bank One names and on behalf of more than 1,500 marketing partners. BANK ONE CORPORATION, with assets of more than \$250 billion, is the nation's fifth-largest bank holding company.

SOURCE: FreeMac.com

## Mini'app'les Gaming Group (MGG) Wants You!

By David M. Peck

Intrepid mini'app'les warriors are meeting on a regular basis for fun and socializing. Our interest is networkable Mac games and are always on the lookout for others who would like to participate.

Finishing a game solo might make you feel like King of the Hill. But there is nothing as challenging or fun as human competition. Plus, Winter around here seems to be a perfect time for gaming! :-)

The MGG meets about once a month. If your interested in net-

workable Mac gaming, feel free to drop a note on the mini'app'les BBS or give me a call at (651)423-5711. We'd look forward to seeing you!

-Dave Peck

## Zero Percent Financing Available For Power Macintosh G3/Printer Promo

Submitted by Rick L. Hammond, [hammond@apple.com](mailto:hammond@apple.com)

In the July 16, 1999, edition of Apple Sales News, Apple announced the Power Macintosh G3/Printer Promotion, beginning July 15, 1999, and ending September 25, 1999. Beginning today, Apple is pleased to announce an enhancement to this promotion.

Effective August 2, 1999, all purchases made under the Power Macintosh G3/Printer promotion are eligible for 24-month lease financing at 0 percent. There is no finance charge on this special 24-

month lease offered by General Electric Capital Corporation for your business customers. This financing is in addition to the current promotion. When your business customers purchase a Power Macintosh G3 computer and choose either the extra RAM or the free printer, they can also take advantage of this financing.

Also, the financing is not limited to Power Macintosh G3 computers alone. As long as the transaction includes a Power Macintosh G3 computer, all additional Apple hardware, software, and other services can be financed at zero percent for 24 months.

#### HOW TO APPLY FOR FINANCING

To take advantage of the zero percent financing offered by General Electric Capital Corporation:

Download the PDF file of the application provided there for your convenience (requires Adobe Acrobat Reader for viewing and printing). A copy of the application is also available from Apple Channel Site.

Complete the application and fax it to General Electric Capital Corporation at (800) 583-3613.

**IMPORTANT NOTE:** Mention of third-party products or services

is for informational purposes only and constitutes neither an endorsement nor a recommendation. All product specifications and descriptions were supplied by the respective vendor or supplier. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.

**FOR MORE INFORMATION:**  
For more information on the General Electric Capital Corporation finance offer, you

may download PDF files of the Finance Program Guidelines and the Finance FAQ (require Adobe Acrobat Reader for viewing and printing). Please read the Program Guidelines and FAQ to assure timely completion of the application, submission of the required documents, and prompt payment. For questions, you may call the 800 numbers provided in the documents.

We think you will agree that zero percent financing combined with the existing promotion makes an outstanding offer that you can promote with confidence and pride.

Besides Complete Internal, this article also appears in the following editions of Apple Sales News: Business Internal (All Business/Retail), Dealers, Direct VARs, Indirect VARs, Business Apple Power Reps.


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hammond@apple.com

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# mini'app'les Handy Form

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- Foreign \$40
- Educational \$50
- Corporate \$100

\* must be a full-time student  
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Company (if mailed to): \_\_\_\_\_

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Occupation: \_\_\_\_\_  Check if this is a  
address change.

Member ID# (if applicable): \_\_\_\_\_

Please list the five software  
packages you use most often:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Which personal computer(s) do you use?

- Power Macintosh model(s) \_\_\_\_\_
- Macintosh model(s) \_\_\_\_\_
- Apple II model(s) \_\_\_\_\_
- Other \_\_\_\_\_

What peripherals or  
attachments do you use?

- Printer
- Laser Printer
- Modem
- Scanner
- Digital Camera
- Drawing Tablet
- Voice Mail
- MIDI
- CD-ROM
- Other \_\_\_\_\_

What are your areas of  
special interest?

- Business Applications
- Household Applications
- Educational Applications
- Desktop Publishing
- Programming
- Networking
- Games
- Other \_\_\_\_\_

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non-club mailing lists

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interested in volunteer  
opportunities

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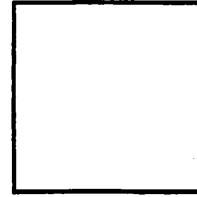
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Attention:  
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 Software Director

Mini'app'les  
P.O. Box 796  
Hopkins, MN 55343-0796



2nd fold

1st fold

Dear mini'app'les  
Please direct this to the:  
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## OS X for Intel "alive," if not "well."

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

At the behest of more than a few of MOSR's inside supporters, we have endeavoured to give the x86 (Intel) version of Mac OS X the kind of close look it hasn't received since Apple officially choked off plans for its public release.

The most basic truth that many computing-industry pundits have utterly failed to realize is that OS X for Intel is just as "alive" as it was the first day that Rhapsody was booted at Apple. Because the object-oriented environment which OS X is developed is "platform agnostic," only the Mach microkernel and hardware drivers need be updated to bring the latest of OS X to any given platform.

Thus, with minimal effort, nearly all of the technologies in the latest developmental builds of Mac OS X can be compiled and used on an Intel machine. However, many of the applications that will make OS X's first consumer release so impressive -- from Quicktime 4.5 to Sherlock II, the new Finder to Carbon itself -- aren't being created with that same "platform agnostic" philosophy. They're being built exclusively for the Mac.

By all the means that MOSR has been given to see into Apple's heart, we know that the parts of that heart that were born out of NeXT still beat strongly; we know that Apple needs to focus on what will make the platform grow now, rather than dwell on what could be. We also know that Apple fully

intends to exercise the cross-platform power of OS X...when it finds that it has a firmer footing on the PowerPC Mac platform and better options for entry into others.

What is not clear, however, is whether Apple is in fact burning its bridges by investing so much of its development dollars in technology that is not cross-platform. With the long-term picture of the PowerPC so unclear, could this come back to haunt Apple in five years? It remains difficult to say, but perhaps it would be wise for Cupertino to make clear plans for dealing with this issue -- and to help us in the community to understand their thinking -- before hindsight becomes our only vantage point.

## Apple Invests \$100 Million in Samsung Electronics

*Submitted by David M. Peck*

SAN JOSE and CUPERTINO, California July 28, 1999 Apple and Samsung today jointly announced that Apple will invest \$100 million in Samsung to further expand Samsung's TFT-LCD flat-panel display production capacity. The investment is part of Apple's strategy to insure an adequate supply of TFT-LCD displays to meet the growing demand for Apple products.

"We are pleased to partner with Samsung to insure that Apple is on the cutting edge of flat panel display technology," said Steve Jobs, Apple's interim CEO. "With our new iBook and fast selling PowerBooks, Apple will need more flat displays than ever going forward."

"We are pleased that Apple has placed such confidence in Samsung's leading-edge technology," stated Y. W. Lee, president

and CEO of Samsung Electronics' Semiconductor Business.

"Samsung will use this investment to further accelerate the expansion of our TFT-LCD production to support Apple's growing needs."

**About Apple Computer**  
Apple Computer, Inc. ignited the personal computer revolution in the 1970s with the Apple II, and reinvented the personal computer in the 1980s with the Macintosh. Apple is now recommitted to its original mission to bring the best personal computing products and support to students, educators, designers, scientists, engineers, businesspersons and consumers in over 140 countries around the world.

**About Samsung Semiconductor**  
Samsung Semiconductor, Inc. is a wholly-owned subsidiary of Korean-based Samsung Electronics Co., Ltd. Samsung's semiconductor division is the sixth-largest semiconductor manufacturer and

the leading producer of memory and TFT-LCD products in the world. Samsung Semiconductor's North American headquarters are located in San Jose, California.

*For more information, please visit our website: <http://www.samsungsemi.com>.*

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