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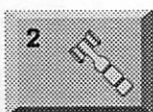
Volume 21, Issue 6



mini'app'les newsletter

the minnesota apple computer users' group, inc.

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7	8 	9 	10 	11 	12	13 DRAGnet see p3
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mini'app'les members welcome.
Byerly's
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Eric Jacobson, 603-9111



ClarisWorks SIG
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John Hunkins, Jr., 457-8949



Telecommunications SIG
Epiphany Lutheran Church
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"Telcom Software: Microphone"
Bert Persson, 861-9578



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Tom Gates, 789-6981



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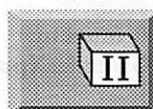
Macintosh Main
Washburn Library
5244 Lyndale Avenue S., Mpls
"Apple Tour-Rick Hammond"
Denis Diekhoff, 920-2437



DRAGnet
840 12th Avenue NE
"Help test/sort equipment
(Mac/Apple II)"
Tom Gates, 789-6981



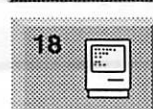
Fourth Dimension SIG
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Apple II Novice SIG
To be determined...
Tom Gates, 789-6981



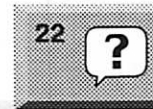
Photoshop
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"Scott Sanville: Canon & USB"
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Macintosh Consultants SIG
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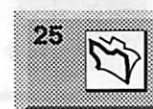
Quicken/Investment SIG
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Macintosh Novice SIG
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Gervaise Kimm, 379-1836



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Partners
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Steve Wilmes, 458-1513



DRAGnet
840 12th Avenue NE
"Help test/sort equipment
(Mac/Apple II)"
Tom Gates, 789-6981

mini'app'les

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P.O. Box 796, Hopkins, MN 55343

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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 488-9979

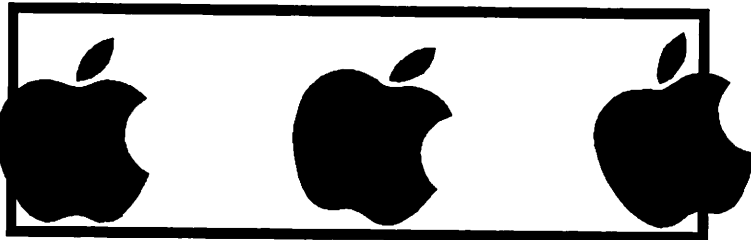
Newsletter Layout: John Hunkins

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Come one, come all to the 1st Annual Bunny Roast.



**An exclusive – and absolutely smoking – presentation
of the Apple Road Tour on Thursday, June 11, at 7PM just
for mini'app'les members and their invited guests.**

**Washburn Library
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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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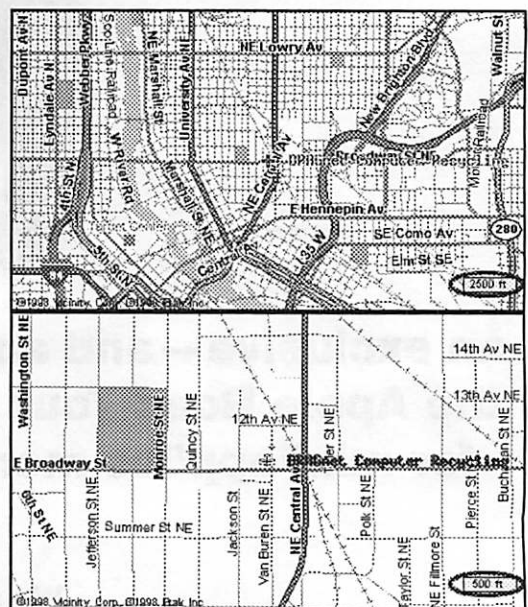
DragNet

840 12th Ave NE,

Minneapolis

May, 2nd & 16th & 30th

Contact: Tom Gates, 789-6981



The June MacMain SIG

Apple Road Tour
by John C. Hunkins, Sr.

Folks, the June MacMain SIG is one you don't want to miss. Eric Jacobson, Brian Bantz, Denis Diekhoff, Bruce Thompson, and others have worked hard to get an Apple Road Tour scheduled here. You will see some fabulous demos.

The Apple Road Tour will cover

the latest technology strategies in hardware, including the new G3 PowerBooks and the iMac. We will also hear about Apple's just released Mac OS strategy and roadmap. There will be plenty to see and hear. Many are speculating whether there will be an iMac there. Personally, I doubt that an iMac will be there; a safe bet is that there will be door prizes.

(Then again Apple's slogan is 'Think Different'.)

Please do plan to attend. A number of people from mini'app'les have worked very hard to make this Apple Road Tour happen. Mark your calendars and hi-lite them in fluorescent green: Thursday, June 11, 7pm, Washburn Library, 5244 Lyndale Avenue South, Mpls.

Mac eDOM #979

Royal Flush for the Macintosh version 1.0

Submitted by Bruce Thompson

What is Royal Flush

Royal Flush is a pinball simulation game, that very accurately mimics the classic "Royal Flush" machine (Gottlieb, 1976).

System requirements

- Macintosh (or compatible) with 25 MHz 68020 processor (PowerPC recommended)
- 3300 K available internal memory
- About 3.5 Mb free disk space
- Monitor size 640 x 400 pixels (832 x 624 or more recommended)
- Monitor capable of displaying 256 colors (or shades of gray)
- System 6.0.7 or higher (system 7.x or higher recommended)
- Sound manager 3.0 or higher
- External speakers recommended

Note that if the available internal memory is less than the required 3300K, but not less than 2500K, the game will run, but sound effects will be disabled.

Features

- Accurate simulation of the classic Royal Flush machine, including sound effects
- Customize settings like incline, tilt sensitivity, flipper power and more
- 3-ball or 5-ball play
- Top ten list of high scores
- Custom settings can be saved in a

file and restored later on (along with the top ten list)

- Top ten can be saved as a printable text document
- Magnet mode allows to draw the ball around and explore the game
- Nudging vertical or 45° sideways
- Game play with either keyboard or mouse
- Custom settings for keyboard control
- Demo mode

Known bugs and incompatibilities

"Sometimes" the plunger has not enough power to launch the ball into the game. When this happens the only remedy is to pause the game with the "esc" key, and then end the game with the "End Game" command from the pull down menu. During the next game the

plunger will probably be allright. Note that this bug can also occur in demo mode: in that case the auto demo will forever keep trying to launch the ball, which will keep falling back.

It has been reported that the Kensington Thinking Mouse is incompatible with the way Royal Flush handles keyboard and mouse input. Any keyboard shortcuts, like command-Q, assigned to the Kensington mouse buttons, will not work in Royal Flush. Furthermore, it might take more than one click to pull down a menu from the menu bar.

Why is this high-quality product free?

Beats me. Just have fun.

Photoshop / Digital Imaging SIG

Canon's latest digital camera
by John C. Hunkins, Sr.

Are you contemplating the purchase of a digital camera? Are you curious about digital cameras, or printers, or the USB? Well then the June Photoshop/Digital Imaging SIG is where you want to be.

Scott Sanville, (scott_sanville@ccsi.canon.com) of Canon, will show us their latest digital camera. Scott will also talk about Canon printers, and discuss the Universal Serial Bus (USB). Apple's recently announced iMac will have two USBs.

The meeting will be Wednesday, June 17, 6:30pm, Washburn Library, 5244 Lyndale Avenue South, Mpls.

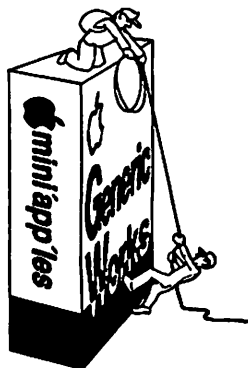
Members Helping Members

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 call (or e-mail) away. Please call only during appropriate times, if you are a Member, and own the software in question.

Macintosh	Key
Clariss Draw	3
Clariss Resolve	2
Clariss Works	2,8,9,10
Cross-Platform File Trnsfr	6
FileMaker Pro	2
First Class	2
MacWrite Pro	2
Microsoft Excel	3,6,7
Microsoft Word	6
MYOB	7
Photoshop	4
Quicken	3,7
QuickBooks & Quickbooks (Pro)	7
System 7	9
Word Perfect	5
New Users	11

If you would like to be a "Members Helping Members" volunteer, please e-mail John Hunkins Sr. with your name & phone number on our BBS, or leave a voice-mail message at 229-6952, or use the MultiForm mailer near the back of this issue.

Applell	Key	ApplellGS	Key
Appleworks	1,6,9	Hypercard GS	1
Applewriter	6	Smartmoney GS	1
Publish It!	1		
To. Superfonts	1		
To. Superform	1		



- | | | |
|---------------------|----------------|-----|
| 1. Les Anderson | 735-3953 | DEW |
| 2. Brian Bantz | 956-9814 | DEW |
| 3. Mike Carlson | 1-218-387-2257 | D |
| 4. Eric Jacobson | 645-6264 | D |
| 5. Nick Ludwig | 593-7410 | DEW |
| 6. Tom Ostertag | 488-9979 | EW |
| 7. Ardie Predweshny | 823-6713 | DEW |
| 8. Owen Strand | 427-2868 | D |
| 9. Bruce Thompson | 546-1088 | EW |
| 10. Pam Lienke | 457-6026 | EW |
| 11. Tom Lufkin | 698-6523 | 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.)
In any case, call at reasonable hours and ask if this is a convenient time for them. By the way, these volunteers can also be reached on our BBS! We appreciate your cooperation.*

Newsletter Ad Rates

1/12 page 2.25" Width x 2.5" Height \$5	Outside back cover . 7-1/2" Width x 7-1/2" Height . . \$50
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All ads must be prepaid and submitted on electronic media. Ads of \$20 and under must run for a minimum of three months.

Mail inquiries to: PO Box 796, Hopkins, MN, 55343
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Pam Works with ClarisWorks



By Pam Lienke

Here's another tip for working with databases. If you have an existing database and you're creating a new layout which requires moving several adjacent fields to a new location, it may be difficult to select the needed fields without at least one of them moving seemingly with a mind of its own. In the layout mode there are several ways to select and move adjacent fields. One method is shift selecting—holding down the Shift key as you select various fields by clicking on them; when using this method you must take care to avoid moving each field before you are

ready. Another method is dragging a selection rectangle around the desired fields—dragging diagonally from one corner of the rectangle to the opposite one; only those fields entirely enclosed in the selection rectangle are selected. Still another method is holding down the Command key and dragging the mouse pointer across any portion of the desired fields; any field partially or entirely inside the selection area is selected.

Once the fields are selected you can move them to the desired location by dragging them or nudging them with the arrow keys.

Apple Registers Signs of Revival

Company has first repeat profit in nearly three years, rising unit sales

By Jodi Mardesich
Mercury News Staff Writer
Submitted by Denis A. Diekhoff

Apple Computer Inc. on Wednesday reported higher profits and growing unit sales, causing analysts to say the company's fortunes appear to be reversing, despite a dip in revenues.

For the second quarter in a row, the Cupertino computer company reported a profit, the first time Apple has posted back-to-back profitable quarters in almost three years. Analysts were expecting profits of about \$20 million for Apple, and the company reported earnings of \$55 million, or 38 cents per share, in its second fiscal quarter. That compares

with a loss of \$708 million, or \$5.64 per share, in the same quarter a year ago, when Apple announced a major restructuring and paid for its acquisition of Next Software Inc. Apple had a profit of \$47 million in the first quarter. All in all, it was a terrific quarter," said Steve Jobs, Apple's interim chief executive officer, in an interview. "We're pretty pleased with the demand for our products. The G3s (Power Macintoshes) have been a home run for us." Jobs said the G3s accounted for 51 percent of Apple units sold in the quarter.

The report came after the close of stock market trading, in which Apple shares rose 50 cents to \$27.44, more than double the price at the end of last year.

Apple's quarterly profit growth

rested as much on cost-cutting as on strong sales, however. Apple's sales for the quarter came in at \$1.4 billion, down 12.5 percent from the \$1.6 billion Apple reported in the same quarter a year ago. Apple's revenues have been in the \$1.6 billion range for the past five quarters, but Apple had expected sales to decline a bit because the second quarter is typically Apple's weakest. Adding to the decline was the company's decision to phase out some of its visual image products, including ink jet printers, digital cameras and scanners. "We re deployed a lot of people in areas of higher return for us," Jobs said.

Meanwhile, Apple pared back operating expenses to \$298 million, down from \$313 million last quarter, even while spending more on adver-



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Telecom SIG

Thursday June 4, 7 pm.

By Bert H. Persson

The topic for the June 4 Telecommunications meeting will be "Microphone" a commercial telecommunications software package used primarily for connecting to Bulletin Board Systems (BBS's). As always we will meet at the Epiphany Lutheran Church 1414 E 48th Street, Minneapolis and everyone is welcome to join us afterwards for our traditional "Pie SIG" at a local restaurant.

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tising. Gross margins rose, to 25 percent, up from 19 percent a year ago and 22 percent last quarter.

Andrew Neff, senior managing director with Bear Stearns in New York, said the questions reporters and analysts were asking Apple on a conference call showed a dramatic change in attitude. Instead of "Are you going to make it and be around next week," people were asking "What sort of growth can you show?" he noted.

"The profitability is absolutely remarkable," said Charles Wolf, equity analyst with Credit Suisse First Boston, in New York. "The news is the company is viable. A year ago we would have said they weren't." Apple showed several signs of growth. Unit shipments were 650,000 for the quarter, up 8 percent over the prior year's quarter, and up about 2 percent from the previous quarter shipments. It was the first time Apple's unit shipments have

grown year-over-year since 1996, said Fred Anderson, the company's chief financial officer.

Sales in the K-12 education market were up "in the high single digits," Anderson said.

And sales through Apple's on-line store reached about \$16 million during the quarter. Jobs said that will increase as Apple opens the store to education customers next month and resellers by the end of the quarter. "I think you'll see those volumes jump enormously," he said.

Apple finished the quarter with 9,049 employees, down from 13,116 last year. The paring continued into this quarter: about 170 people have received pink slips and will be leaving in the next 60 days, Anderson said. He would not specify what groups or projects were affected.

Anderson hinted that Apple would release new PowerBooks and consumer products in the next few months, but that the sales impact

probably won't be felt until the December quarter, rather than September, as he had said earlier this year.

"We already have evidence we're coming back with insanely great products," he said. "I think it's going to be Apple returning to great marketing and advertising."

Earlier Wednesday, Apple board member Larry Ellison told reporters at an Oracle Corp. meeting that Apple's board was "not looking very hard" for a permanent CEO. Anderson echoed that sentiment. When asked the perpetual CEO-search question, Anderson said the board's search for a permanent CEO is on the "back burner."

"Steve is our leader," Anderson said. "He's making a difference. For us it doesn't matter whether he has 'interim' in front of his CEO title or not."

The Motley Fool: Weekly Stock Screens Margins

Submitted by Denis A. Diekhoff

What are margins? Margins are profit margins, operating margins and gross margins. All are measures of how much money a company keeps after it pays for different aspects of the production of a product. Gross margins tell you how much is left after you have paid for

labor and materials. Operating margins tell you what is left after sales expenses, administrative salaries and expenses, and general non-production overhead. Profit margins (net profit margins) tell you what is left after all of those expenses, plus one-time losses or gains, interest expenses, income or losses from invest-

ments or subsidiaries, and taxes — in other words, after ALL the bills have been paid.

When earnings increase faster than sales, it means that margins are rising and times are good. Companies that are increasing their margins tend to produce the best earnings over time.

Apple and Hewlett-Packard Announce Printer Alliance

Submitted by Denis Diekhoff

CUPERTINO, Calif., April 28 /PRNewswire, Apple Computer, Inc. (Nasdaq: AAPL) and Hewlett-Packard Company (NYSE: HWP) today announced that they are partnering to deliver HP's state-of-the-art printers to Macintosh(R) customers. As part of the agreement, HP will make future ink-jet printers compatible with the Mac(R) OS. In addition, Apple will resell a selection of HP's ink-jet printers to its education customers.

"HP is very happy to be recognized as Apple's premiere ink-jet

printer partner," said Antonio Perez, VP and GM of HP's Consumer Products Group. "HP has a long history of providing world-class Macintosh-connect products, including LaserJet and DeskJet printers, ScanJet scanners and DesignJet large format printers that complement Apple's product offerings. This agreement will enable HP to provide state-of-the-art printing technologies to a broad range of Macintosh users."

"Apple and HP are working together to ensure that Macintosh customers continue to have the best affordable printers," said Steve Jobs,

Interim CEO of Apple. "HP's commitment to provide built-in Mac OS support with HP's industry-leading printers is a big win for Macintosh customers."

Apple will begin reselling two HP printers to its education customers in May. The DeskJet(TM)890CM printer with a Macintosh network bundle and HP DeskWriter(TM) 694C printer are now available for order. For more information, check www.apple.com or call 800-800-APPLE. Later this year, Apple plans to extend the availability of HP ink-jet printers to additional direct chan-

nels.

Apple and HP also plan to work together to extend Apple's

Apple's Orchard

by orchard@enigmaworks.com
submitted by David M. Peck

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Quicken Exchange Livens Stockholders Meeting

By Jodi Mardesich
Mercury News Staff Writer
Submitted by Denis A. Diekhoff

CUPERTINO — Apple Computer Inc.'s annual shareholder's meeting on Wednesday was downright tame, lacking the hype and product introductions of years past. But shareholders said it gave them the chance to see Steve Jobs, co-founder and interim CEO, in action.

Jobs, who has presided over two money-making quarters after a string of losses that totaled almost \$2 billion in the past two years, scored points from shareholders with statements that appeared to indicate he has rescued Quicken for the Mac.

Last Friday, Intuit Inc. announced it would no longer develop Mac versions of Quicken, its flagship personal finance program. Intuit's CEO, Bill Campbell, is an Apple director. When a shareholder questioned the appropriateness of Campbell being on Apple's board in light of the decision, Jobs intercepted the question and shouldered some of the blame.

"Bill was on vacation" when the announcement was made, Jobs said. Since the decision, Jobs showed Intuit Apple's upcoming consumer products under development. "I think you'll see a joint press release by the companies next week," Jobs said, to applause.

Campbell, in an interview after the meeting, confirmed Intuit would

issue a press release next week, but wouldn't say what it would be about. "We're doing a lot of work on strengthening the relationship with Apple," he said.

On Tuesday, Intuit chairman Scott Cook, in an interview with the Mercury News, gave no indication Intuit was thinking about reversing the decision it had announced just days earlier.

At the meeting, shareholders pressed Jobs to disclose a strategy. "We can't discuss new products," Jobs told the crowd of about 600 in meeting rooms at the company's headquarters. "We have an element of surprise and would like to keep it a surprise." He said Apple would have ample opportunity for new product introductions in the next six months.

One shareholder asked for a \$500 computer. "Yeah, we're working on something," Jobs said. "Come to next year's meeting and tell us what you think."

"Essentially he's saying, 'We've got some rabbits we're going to pull out of a hat, I'm not going to tell you what those rabbits are, but we've got them,'" said Vance Miller, a shareholder from Portola Valley.

Miller and his wife, Jackie, said they were happy Jobs was back in charge. "He cares about Apple," Jackie said.

Still, while Apple's performance has improved of late, the Millers'

shares are worth about what they were when they bought them in 1987. By contrast, an identical \$5,000 investment in Sun Microsystems the same year is worth \$60,000 more today, they said.

Several shareholders questioned the cancellation of the MessagePad, Apple's personal digital assistant, which uses the Newton operating system. Jobs said Apple has received several small offers to buy or license the Newton technology, but that it would be "foolish" to give it away for "a small pittance." Apple may use some of those technologies in future Mac products, he added.

For the first time that shareholders could remember, their bags were searched and a metal detector screened them upon entering.

Some came away feeling upbeat about the personal computer-maker's future. Stan Tusan, a shareholder from Walnut Creek, said after the meeting, "I have much more confidence now." A woman who did not want to give her name also noted that the tone of the questions was more polite this year than in the past.

Others, including a Newton user, left disheartened. "There's no way the Newton is survivable, based on Jobs' current attitude," said Randy Collins, an investor from Chicago.

One shareholder said he was concerned about Jobs' refusal to take away the "interim" prefix from his

CEO title.

"We have no announcements to make at this time," Jobs said, when a

shareholder asked him about the matter. "Some people are worried about the word interim but they

weren't worried about the last CEO, and he wasn't interim. Go figure."

Quicken Is Back On The Mac:

Submitted by Bruce Thompson

Apple and Intuit Work Together to Promote Personal Finance on the Desktop and on the Web

CUPERTINO, Calif., May 5 /PRNewswire/ — Apple Computer, Inc. and Intuit, Inc. today announced that Intuit has recommitted to support and develop its Quicken products for Macintosh, after being disclosed on Apple's upcoming consumer products and strategies. Apple and Intuit will work together to promote Intuit's current version, Quicken 98, and Intuit will proceed to develop a new version of Quicken for Macintosh, to be available in 1999.

In addition, the two companies will explore ways to develop new

personal finance opportunities for Macintosh users on the web, through Intuit's website, Quicken.com.

"Now, having seen what Apple is planning for consumer products, we're thrilled to announce renewed support for the Macintosh," said Mark Goines, senior vice president, Intuit's Consumer Division.

"We're delighted to have Quicken back on the Mac, and we look forward to working with Intuit on Quicken 98 and new products in 1999," said Steve Jobs, Apple's Interim CEO.

Quicken is Intuit's best selling desktop personal financial management software. Quicken.com is one of the most comprehensive personal finance sites on the web and one of

the most popular, receiving more than 70 million page views each month.

Intuit Inc., a financial software and Web-based services company, develops and markets Quicken, the leading personal financial software; TurboTax and MacIntax, the best-selling tax preparation software; and QuickBooks, the most popular small business accounting software. Intuit's Quicken.com Web site offers a complete set of personal financial news, information and tools, including leading investment, mortgage, and insurance sites. Intuit's products and services enable individuals, small businesses and financial professionals to better manage their financial lives and businesses.

Photoshop 5.0's Top 10 new features

by Dennis Sellers (dsellers@maccen-tral.com)

Submitted by Bruce Thompson

Adobe will announce Photoshop 5.0 tomorrow, an update that features dozens of new features. According to information from Adobe, the top 10 new features are:

Multiple Undo. You can quickly undo or redo any steps with the new History palette. **Editable Text.** New text layers let you edit text at any time and format with leading, kerning, tracking and more. **Layer Effects.** Users can apply drop shadows, bevels, and glow effects automatically to any element placed on a

"live" layer. **Enhanced Actions palette and Actions Plug-Ins.** You can record a broader range of Photoshop functions, including many tools, with the enhanced Actions palette. Actions plug-ins by third party developers should offer additional time-saving features. **Magnetic Lasso.** Select areas of an image more easily with a lasso tool that snaps to the edge of the item you're tracing. **Measure Tool.** Measure any distance or angle in an image with the precise ruler/protractor tool. **Color Samples.** For more accurate monitoring of color correction, you can place samplers on up

to four locations within an image and get exact readouts of color values in those areas. **Simulated 3D Transform.** You can manipulate the size, position, and orientation of a dimensional object within a flat image. **ICC and ColorSync support.** Adobe says you can get consistent color from input through output with support for ICC and Apple's ColorSync color management profiles.

Upgrades to version 5.0 from previous versions (except the LE) are \$199. Upgrades from the LE (Limited Edition) versions are \$299.

Adobe Announces Photoshop(R) 5.0

Submitted by Bruce Thompson

The World's Best-Selling Professional Image-Editing Software Just Got Better

San Jose, Calif. (April 26, 1998) (Nasdaq:ADBE) — The world's best-

selling professional image-editing software will be available next month in its most powerful version ever with new tools to unleash the talents of inventive and creative users of Adobe Photoshop software.

Key new features in Photoshop

5.0 such as the History Palette, Editable Text Layers, Spot-Color Channels, and Color Management support make it easier for users to focus their creativity on their designs.

"Customer input has played a

major role in shaping the Photoshop 5.0 release," said John Leddy, Photoshop group product manager. "In addition to answering our customers' top requests, we've added a wealth of powerful features that address the full range of Photoshop uses—from color correction to photo-composition and from print production to Web design. Users will gain more freedom to experiment, more predictable results, and more saved time."

Freedom to Experiment

The addition of the History Palette satisfies one of users' top requests: the ability to undo multiple steps with a single click. Katrin Eismann, a photographer and author in Los Angeles, thinks the History Palette is "brilliant." "It's as if someone is taking notes of my work in progress," says Eismann. "Since the History Palette tracks every step of my work, I feel more relaxed and try out more new ideas. If I decide I like what I did 10 minutes ago better, I click on that step and I'm back there."

Photoshop 5.0 software also offers an innovative History Brush that allows users to seamlessly combine different versions of the same image. The History Brush enables customers to create unique designs that incorporate the best elements from both images.

Saves Time

Other practical new features of Photoshop 5.0 include timesaving Magnetic Selection Tools. The Magnetic Lasso makes it a breeze to trace the outline of even the most intricate objects. "Today, for example, I'm leaving on a shoot for an Italian fashion magazine," says Douglas Kirkland, a fashion and celebrity photographer whose work includes photographs of celebrities from Marilyn Monroe to Leonardo DiCaprio. "With the magnetic lasso I know I can finish this project in three days instead of four. It is an amazing tool and it saves a phenomenal amount of time."

Web and print designers will appreciate the new Layer Effects feature in Photoshop 5.0 which automates the creation of formerly time-consuming effects such as shadows, glows, and bevels. Now, these effects can be attached to any layer with a few mouse clicks, after which they remain "live." The effects regenerate themselves automatically any time the layer is edited.

Predictable, Professional Results

Color management has challenged many creative professionals who require color consistency across hardware and for output of their designs. Photoshop 5.0 software helps resolve this issue by complementing its existing color management engine with full support for industry-standard ICC profiles. Users can now choose the color management work flow they prefer, or they can even integrate different approaches. The result is more consistent color from input through output.

Precision and Control

Editable Type with Character Level Formatting is one of many new features that give Adobe users even greater precision and control during the editing process. Users have complete control to flow text horizontally or vertically, to mix multiple typefaces, and to adjust size, kerning, baseline, and tracking. Best of all, the new Type Tools create special type layers that retain their formatting characteristics and can be edited at any time.

This newest release reinforces Photoshop as an indispensable tool for a broad range of users. Ben Willmore, CEO of Digital Mastery in Boulder, Colorado, has taught everyone from corporations to government agencies to Hollywood film studios how Adobe software can help their bottom line. "I tell companies, if you're not using Photoshop to create your documents you're wasting time and money," says Willmore. Too many firms, he says, pay high fees for others to do their scans,

color corrections, retouching and image compositing. Says Willmore: "Photoshop 5.0 has become so refined and has so many time-saving features that tasks that once required five production people can now be done by one person."

Adobe Photoshop 5.0 for Windows also includes the FotoExplorer(TM) software from FotoNation Inc. which makes bringing images into Adobe Photoshop from some popular digital cameras as easy as accessing files from a desktop folder.

Since Adobe introduced Photoshop software in 1989, growth in digital imaging has exploded. Sales of digital cameras are expected to increase six-fold within two years, and Eastman Kodak Co. estimates that of the 72 billion photographs taken each year worldwide, between 20 to 40 percent will be processed digitally by the year 2000, driving even greater demand for image editing tools.

In addition to millions of new users, the range of people and purposes for which they use Photoshop is now more varied than ever. Photoshop 5.0 strengthens Adobe's extensive portfolio of digital imaging products for creative professionals, business customers, and home users. Whether for work with images on the Web, in print, in video, at home, or in the office, Adobe has the solution.

Pricing and Availability

Photoshop 5.0, priced at \$995, is expected to ship in May. Photoshop users will be able to upgrade for an introductory price of \$199.

About Adobe Systems Incorporated Based in San Jose, California, Adobe Systems Incorporated develops and supports products to help people express and use information in more imaginative and meaningful ways across print and electronic media. Adobe, the Adobe logo, and Photoshop are trademarks of Adobe Systems Incorporated. FotoExplorer is a trademark of FotoNation Inc. All other trademarks are the property of their respective owners."

Apple Announces Rebate

Apple Offers Customers Rebate with Purchase of Mac OS 8.1 and Microsoft Office 98 Macintosh Edition
Submitted by Denis A. Diekhoff

CUPERTINO, Calif., April 27 /PRNewswire/ • Apple Computer, Inc. announced today it is offering a U.S. \$30 mail-in rebate to customers who purchase both Mac(R) OS 8.1 and Microsoft Office 98 Macintosh(R) Edition. The rebate offer is available now and will continue through June 30, 1998. Details and eligibility requirements are available on Apple's website (www.apple.com/promo/).

"Apple's most successful operating system release, Mac OS 8, combined with Microsoft's most advanced application suite for the Macintosh, Office 98, makes a powerful pair," said Phil Schiller, vice president of World Wide Product Marketing at Apple Computer, Inc. "Together, these landmark software products bring great reliability, tremendous performance, and a fresh new interface to Apple and Microsoft's mutual customers."

"We're pleased to be working so closely with Apple at many levels within our organizations," said Ben Waldman, general manager of the Macintosh Business Unit at Microsoft. "This promotion and the product integration between Office 98 Macintosh Edition and Mac OS 8.1 are great examples of how the reinvigorated partnership between Microsoft and Apple provides great value for our customers."

Mac OS 8.1

Mac OS 8.1 is the latest version of the Mac OS which builds on the strong success of Mac OS 8, Apple's most successful software product ever. Mac OS 8.1 offers many new features, advanced Internet capabilities, better Java support, and improved performance and stability. The primary new features in Mac OS 8.1 are:

- Microsoft Internet Explorer provided as the default web browser

- Greatly improved Java compatibility and performance over Mac OS 8 with the newest version of Apple's Java Virtual Machine (MRJ 2.0) which implements Sun's Java Development Kit (JDK version 1.1.3)
- More efficient disk storage with HFS+, an improved disk file system and format that literally returns storage space back to customers
- Built in Digital Video Disk (DVD) Universal Disk Format (UDF) which reads video DVDs and DVD-ROM interactive games
- Faster application launching from newly optimized virtual memory and disk cache systems
- Printing across TCP/IP networks with a new LaserWriter(R) printer driver
- Better PC compatibility with PC Exchange 2.2 which supports Windows 95 long file names and volume formats, including PC-formatted removable media such as Iomega Zip and Jaz cartridges

Mac OS 8.1 runs on all PowerPC and 68040 processor-based Macintosh computers with at least 16MB of RAM. The full install CD-ROM version of Mac OS 8.1 is available now for the estimated retail price of U.S. \$99. To qualify for the rebate, the full install retail version of Mac OS 8.1 (Apple part number: 453100U) must be purchased.

Microsoft Office 98 Macintosh Edition

Office 98 Macintosh Edition is the most significant upgrade to date of the world's most popular productivity suite for the Macintosh, and is now broadly available from resellers. Office 98 sets a new standard for what a business application for the Mac(R) should be, from its true Macintosh appearance and behavior, to its deep intelligence and integrated web collaboration tools.

Office 98 includes new versions of Microsoft Word, Microsoft Excel, the PowerPoint presentation graphics program, Outlook Express, an

Internet e-mail and newsgroup client, and Internet Explorer 4.0 for Macintosh, the best-of-breed Internet browser for the Macintosh. The estimated retail price for an upgrade from previous Microsoft Office applications is U.S. \$299, and a new license is U.S. \$499.

Rebate Terms and Conditions

The Mac OS 8.1/Microsoft Office 98 Macintosh Edition rebate offer is valid only in the United States while supplies last, and is not valid with any other Apple offer. To qualify, the full install retail version of Mac OS 8.1 and Microsoft Office 98 Macintosh Edition must be purchased by June 30, however, customers have until July 31, 1998 to apply for the offer. The products do not need to be purchased at the same time. Rebate coupons are available at point of purchase from resellers carrying Mac OS 8.1 and Office 98 Macintosh Edition. Coupons are also available from the Apple website

(www.apple.com/promo/), or from Apple's Faxback service by calling 1-800-IMAGE-96 (1-800 462-4396) and referencing document #11694. *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. Apple, the Apple logo, Mac, Mac OS, and Macintosh are registered trademarks of Apple Computer, Inc. Additional company and product names may be trademarks or registered trademarks of the individual companies and are respectfully acknowledged.*

Real Software Announces Realbasic

By Geoff Perlman,
<geoff@realsoftware.com>
Submitted by David M. Peck

Easy-to-use application development software features Visual Basic and Java compatibility

AUSTIN, TEXAS, Apr. 6th, 1998
REAL Software, Inc. today announced REALbasic for Mac OS at an estimated retail price of \$99. REALbasic is expected to ship in May or June but a public beta is available now from REAL Software's web site and can be downloaded free-of-charge.

REALbasic is the easy-to-use integrated development environment (IDE) that enables users of all levels to create powerful stand-alone, native 68k and PowerPC applications quickly and easily, without having to learn a complex programming language such as C++ or the details of the Macintosh Toolbox. REALbasic enables users to create the entire user interface for their applications in minutes without any programming. Its programming language is an object-oriented version of the BASIC programming language and is highly compatible with Microsoft's Visual Basic. Applications created with REALbasic can also be compiled as Java applets for use in Web pages.

REALbasic's drag and drop interface builder makes it so easy to create a user interface that most users are testing their interface in minutes. And because most of the interface is handled automatically, users can focus their programming efforts on solving their problems rather than programming the interface. REALbasic's interface builder includes editfields, popup menus, hierarchical MacOS8-style listboxes, a QuickTime movie player, checkboxes, radio buttons, tab panels, contextual menus, balloon help and more. REALbasic's Interface Assistant helps users to create an interface that follows Apple's Macintosh Human Interface Guidelines. Applications created with REALbasic are automati-

cally Appearance Manager compliant allowing them to take on whatever appearance the user has chosen if they are running the Kaleidoscope extension.

REALbasic supports Macintosh technologies such as QuickTime, QuickTime Musical Instruments, drag and drop, and AppleScript. It also supports HyperCard's XCMD and XFCN plug-in format allowing users to utilize the thousands of existing plug-ins. REALbasic includes a TCP/IP control for Internet connectivity, a serial tool for modem communications and a sprite engine for creating animation.

REALbasic's object-oriented BASIC language supports object events, properties, methods, classes, inheritance and polymorphism. It's also a strongly typed language which makes applications more reliable. Memory management is handled automatically through garbage collection and the advanced, dynamic recompiler makes testing applications and building stand-alone applications fast because all of the code doesn't have to be recompiled every time. Unlike most BASIC programming environments, REALbasic has no interpreter. Code is always running compiled even when the user is stepping through code with the debugger. Stand-alone applications carry a small footprint for both disk and memory usage. The runtime engine overhead is approximate 150K of disk space and most applications built with REALbasic will require only 1 MB of memory or less.

Designed for compatibility with Microsoft's Visual Basic for Windows in mind, REALbasic's language is so similar, that many users with Visual Basic projects can port them to the Macintosh using REALbasic with a minimum number of changes. Later this year, REAL Software will be adding a Visual Basic importer to REALbasic which will import Visual Basic projects including menus, forms and code to make porting Visual Basic projects even easier.

The beta release is available for download now, free-of-charge, from REAL Software's web site at www.realsoftware.com. REALbasic will be commercially available in May or June directly from REAL Software for \$99.95. Users of competitive application development software may be eligible for a rebate with proof of ownership and purchase. Academic pricing is also available. REALbasic can be ordered directly from REAL Software's web site at <http://www.realsoftware.com> or by phone at 512-292-9988; fax 512-292-6670; <mailto:sales@realsoftware.com>; <http://www.realsoftware.com>.

REALbasic requires a Macintosh, Power Macintosh, or compatible computer with a 68020 processor or higher; 2.5 MB RAM; System 7.1 or later; and 10 MB of free hard disk space for full installation of the software, documentation and examples. REALbasic will ship on CD-ROM format, requiring a CD-ROM drive and can also be downloaded from REAL Software's web site. REAL Software offers disk fulfillment for an additional charge.

Founded in 1996 by Geoff Perlman former ACI US Manager, REAL Software, Inc. is the publisher of REALbasic, with headquarters in Austin, Texas. For more information, visit the REAL Software web site at <http://www.realsoftware.com>.

HyperCard Version 2.4 Available

Submitted by Denis Diekhoff

Apple's New HyperCard 2.4 Now Available; Latest Version of HyperCard Leverages Powerful QuickTime 3 Capabilities

CUPERTINO, Calif., April 27 /PRNewswire/ — Apple Computer, Inc. (Nasdaq: AAPL) today announced the availability of HyperCard 2.4, the latest version of the Company's custom software development tool used to create interactive applications primarily for training and education. HyperCard 2.4 leverages QuickTime 3's rich array of video and audio capabilities, making it possible to easily add sophisticated multimedia experiences to existing or new applications. Building on the power of QuickTime 3, HyperCard 2.4 lets users work directly with more than 30 standard media file types.

HyperCard 2.4's new features include a suite of commands and properties, offering users who write HyperTalk scripts the ability to establish links from HyperCard

stacks to QuickTime movies, QuickTime VR scenes, and the World Wide Web; navigate quickly to predefined locations in a QuickTime movie by searching the movie's text track; resize, flip, mirror, rotate or skew a QuickTime movie in real time; loop a movie, providing continuous play for unattended applications like multimedia kiosks.

About HyperCard

HyperCard is Apple's custom software development tool for users of every skill level with navigation, hypertext, media integration and scripting features that have greatly influenced the evolution of the World Wide Web. HyperCard organizes information into associated "stacks" of cards that can be easily navigated and searched. Users are able to integrate and link text, graphics, sound, speech and QuickTime movies into HyperCard stacks to create dynamic, interactive titles.

Pricing & Availability

HyperCard 2.3.5 customers can immediately upgrade to the new version free of charge from the HyperCard website (www.apple.com/hypercard/). HyperCard 2.4 will be available for U.S. \$99 via The Apple Store (www.apple.com/store/), and through volume licensing and maintenance agreements at the end of May. For more information, in the U.S. call 1-800-282-2732.

QuickTime 3 — the latest version of Apple's award-winning, industry standard software for creating and publishing digital media for Mac OS and Windows — is available for download via the Apple website at www.apple.com/quicktime/. Apple's home page on the World Wide Web: www.apple.com.

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Tidbit - BIG Thank you from Mac Users...

By Fred Showker
news-editor@user-groups.com
Submitted by Brian Bantz

What could be better than getting mail from EvangeListas who are enjoying reading reviews of the best Mac-related books and software — in a spam-free environment — written by real Mac users, in every day life!

Thank you all. Thanks too to those of you who complimented us for a spam-free web experience! One reader commented... "At last! I've found a quiet place with value where something doesn't move, blink, flip, flop, or insult me with rude banner ads!" These comments are welcome to all those who freely donate their time and efforts to make the community better.

<http://www.user-groups.com/library/reviews/>

How about actually buying your favorite new books at discount and

know at the same time you'll be helping user groups continue to spread Mac benefits into their local communities?

As an associate with Amazon.com, The User Group Network is pleased to invite you to The User Group Bookstore.
<http://www.user-groups.com/bookstore/>

While you're here, take a look at The Las Angeles Mac User Group (LAMG) "Industry Insider" column from D'Lynn Waldron.
<http://www.user-groups.com/library/LAMG/>

D'Lynn not only reviews products and books, but tells you like it is — not affected by commercial agendas like the 'spam' web sites. (The award-winning LAMG is one of the most influential groups in the world!)

Then take a trip out to the East

coast for the works of The Maryland Apple Corps. Although they've served Mac users in the greater Maryland region for many years, they're one of the newest content partners in The User Group Network. Take a look at some of their award-winning reviews and articles.
<http://www.user-groups.com/maryland/>

We are happy to provide EvangeListas with spam-free news from the User Group world.
<http://www.user-groups.com/ugnetwork/news/>
<http://www.user-groups.com/Apple/>

I would like to extend a special thanks to those EvangeListas who have made The User Group Network one of the most frequently read online Mac user magazines in the world.

Fred Showker, Editor in Chief,
The User Group Network
<http://www.user-groups.com/>

Apple Brings Video Editing to the Classroom

By Apple

Submitted by Brian Bantz

Power Macintosh G3 All-in-One and Avid Cinema Provide Educators With Premium Editing Tool

CUPERTINO, Calif., April 27 /PRNewswire/ — Apple Computer, Inc. (Nasdaq: AAPL) today announced that the Power Macintosh(R) 266 MHz G3 All-in-one will now include Avid Technology, Inc.'s Avid Cinema, an easy-to-use, affordable digital video editing and publishing solution. This complete video editing suite provides educators and students with an easy and affordable way to design innovative projects such as video yearbooks and mock news reports that combine video clips, photographs and audio segments.

"Bringing multimedia and video editing to the classroom helps students to think creatively and teaches them real-world technology skills that they will use far beyond their schooling experience," said Mike Lorion, vice president of Education Sales for Apple.

Mark Basler, Director of Marketing for Avid Cinema, said, "Apple's fast and powerful G3 sys-

tems coupled with Avid Cinema's easy-to-use video editing technology will enable students at any level to quickly and easily edit and produce videos for school projects or attention-grabbing instructional sessions. Teachers and professors will also be able to take advantage of video as a powerful teaching tool with this affordable solution."

The Power Macintosh G3 All-in-one, announced in March, was designed with the powerful PowerPC G3 processor to deliver incredible performance for advanced multimedia capabilities. Technologies to enhance the learning experience include, a fast graphics accelerator chip, 24x-speed CD-ROM, built-in microphone and stereo speakers, 16-bit stereo sound in/out and NTSC and composite video in/out.

Developed in 1996 by Avid Technology, Inc., in conjunction with Apple, Avid Cinema is a video editing and publishing system designed for use at home, school and office. Avid Cinema utilizes QuickTime 3, recently released by Apple, to enable video capture and full-screen playback on Macintosh systems. Educators can use cam-

orders, VCRs, or laser-disc players to input video into the G3 All-in-one and then use Avid Cinema to edit the video by rearranging clips, adding transition effects, animated titles and music or voice-overs. The completed video can then be output to a video tape, CD-ROM or distributed over the Internet, or used as a QuickTime movie in presentations or on websites.

Power Macintosh G3 All-in-one

-266 MHz G3 processor with 512K level 2 backside cache comes with 32MB SDRAM, 4 GB hard drive, 24x-speed CD-ROM, 16-bit audio in/out, 24-bit NTSC and composite video in/out.

Pricing and Availability

The Power Macintosh G3 All-in-one with Avid Cinema is available to Apple's education customers in the United States and Canada. For more information on the Power Macintosh G3 All-in-one please check the Education Price List at www.apple.com or call 800-800-APPL.

Apple's new consumer box

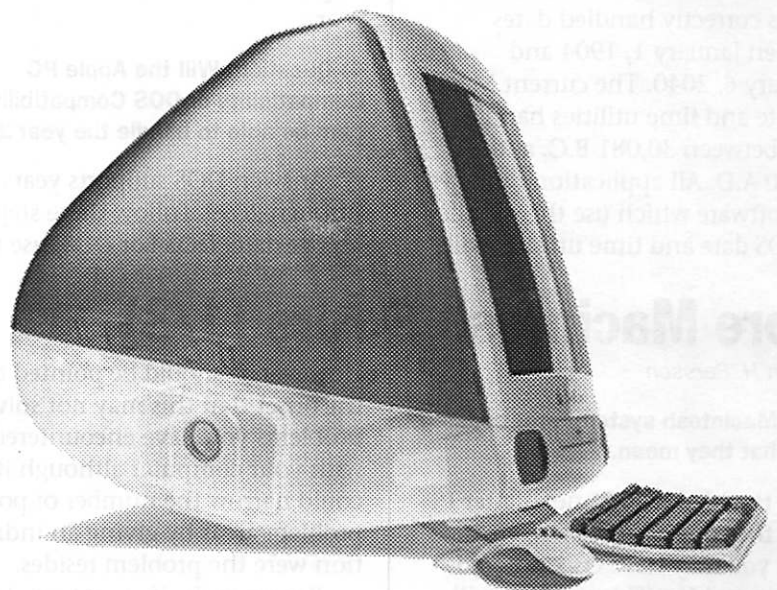
By Don Fitzwater

Submitted by Tom Ostertag

Here is the iMac Apple's new consumer box that outperforms the fastest Consumer Pentium box on the market.

It comes bundled with AppleWorks (Claris works renamed), America Online 4.0, Filemaker, IE 4.0 and has built-in display (in other words it has everything you need including software for one low price (\$1299 msr).

This is GREAT news!!!!!!



Mac OS: Year 2000 Frequently Asked Questions

By Rick Hammond, hammond@apple.com
Submitted by Tom Ostertag

You may have wondered whether the clock in your Macintosh computer will continue to function into the next (twenty-first) century. Many stories have been circulated about computers not being able to handle dates past a certain year.

This article contains some questions and answers dealing with the Macintosh computer, Power Macintosh computer, and Mac OS and what will happen in the year 2000 and beyond.

- 1) Will the Mac OS have a problem with dates in the year 2000?
- 2) Why can I not set the date in the Date & Time control panel past the year 2019?
- 3) Is the year 2000 a leap year?
- 4) Will the Apple PC Compatibility or DOS Compatibility card be able to handle the year 2000?
- 5) Where can I get more information on how this issue relates to Apple products?

NOTE: The industry buzzword for Year 2000 compliance is "y2k".

DISCUSSION

1) Question: Will the Mac OS have a problem with the year 2000?

Answer: No. The Mac OS has always correctly handled dates between January 1, 1904 and February 6, 2040. The current Mac OS date and time utilities handle all dates between 30,081 B.C. and 29,940 A.D. All applications and system software which use the supplied Mac OS date and time utilities will

have no problems with the year 2000. The only possible issues would come if an application does not use the routines supplied by the Mac OS for manipulating dates and times. If you believe you have such an application, please contact the manufacturer of that application for an update.

2) Question: Why can I not set the date in the Date & Time control panel past the year 2019?

Answer: The Date & Time control panel constrains the year to the range 1920 to 2019. This was done because the original Macintosh System 6 General control panel only displayed a 2-digit year. A programmer can set the date beyond 2019 by calling a Mac OS supplied routine. Apple expects to release a revised Date & Time control panel as part of Mac OS 8.

3) Question: Is the year 2000 a leap year?

Answer: The rule for leap years is that all years divisible by 4 are leap years, except those years divisible by 100. The exception, to the years divisible by 100 rule, is that years divisible by 400 are leap years. This means that 1800 and 1900 were not leap years, but the year 2000 is a leap year.

4) Question: Will the Apple PC Compatibility or DOS Compatibility card be able to handle the year 2000?

Answer: DOS supports years 1980 through 2099. Follow these steps to set the date: DOS For DOS, use the

date command by typing "DATE " at the DOS prompt. Format the date as: "mm-dd-yy" for years 1980 - 1999, or "mm-dd-yyyy" for years 1980-2099.

Windows 3.x For Windows 3.x, use the Date & Time Control Panel found in the Main Program group. Set the date and time by selecting the value clicking the arrows. NOTE: The four digit year format can be selected in the International Control Panel.

Windows 95 For Windows 95, use the Date & Time Control Panel found in the Start Menu, Settings, Control Panel. Set the date and time by selecting the value and changing with arrows.

Newer applications should also not have a problem with full year dates (2xxx), check with the vendor or test the application.

5) Question: Where can I get more information on how this issue relates to Apple products?

Answer: The Apple web site <http://www.apple.com/macos/info/2000.html> provides answers to many common questions about the year 2000 and is focused on year 2000 compliance as it relates to all Apple products. If this website does not provide the information you are looking for, requests can be made to Apple in writing at the following address:

Apple Computer, Inc., Attn: Customer Care, MS: 72-P, One Infinite Loop, Cupertino, CA 95014
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More Macintosh Errors (1/3)

By Bert H. Persson

More Macintosh system error codes and what they mean.

In the March 1998 newsletter I listed the common positive error codes you may have encountered using your Mac. This time we will look at the negative error codes.

However, it should be pointed out at the onset that this may not solve the problems you have encountered with your computer although it could narrow the number of possible problem areas by giving an indication where the problem resides.

For example, if we get an -33 error we know there is something

wrong with the File system or more specifically that a directory is full.

The next time you see a negative error code between 0 and -261 you will know from the following list what error occurred. Fixing the problem is something else, but at least this list may point you in the right direction.

This article has been obtained from the Apple Technical Information Libraries (TIL).

General System Errors, Color Manager Errors I/O System Errors,

File System Errors, Font Manager Errors, Disk, Serial Ports, Clock Specific Errors, AppleTalk Errors, Scrap Manager Errors, Storage Allocator Errors, HFS Errors, Menu

Manager Errors, HFS FileID Errors, Color QuickDraw and Color Manager Errors, Resource Manager Errors (other than I/O), Sound Manager Errors, MIDI Manager

Negative Error Codes (0 to -99)

General System Errors (VBL Mgr, Queue)

0	noErr	0 for success "OR"
0	smNotTruncated	No truncation necessary
-1	qErr	queue element not found during deletion "OR"
-1	smTruncErr	Truncation indicator alone is wider than the specified width
-2	vTypErr	invalid queue element
-3	corErr	core routine number out of range
-4	unimpErr	unimplemented core routine
-5	SlpTypeErr	invalid queue element
-8	seNoDB	no debugger installed to handle debugger command

Color Manager Errors

-9	iTabPurgErr	from Color2Index/ITabMatch
-10	noColMatch	from Color2Index/ITabMatch
-11	qAllocErr	from MakeITable
-12	tblAllocErr	from MakeITable
-13	overRun	from MakeITable
-14	noRoomErr	from MakeITable
-15	seOutOfRange	from SetEntry
-16	seProtErr	from SetEntry
-17	i2CRangeErr	from SetEntry
-18	gdBadDev	from SetEntry
-19	reRangeErr	from SetEntry
-20	seInvRequest	from SetEntry
-21	seNoMemErr	from SetEntry

I/O System Errors

-17	controlErr	Driver can't respond to Control call
-18	statusErr	Driver can't respond to Status call
-19	readErr	Driver can't respond to Read call
-20	writErr	Driver can't respond to Write call
-21	badUnitErr	Driver ref num doesn't match unit table
-22	unitEmptyErr	Driver ref num specifies NIL handle in unit table
-23	openErr	Requested read/write permission doesn't match driver's open permission, or Attempt to open RAM serial Driver failed
-24	closErr	Close failed; Permission to close .MPP driver was denied
-25	dRemovErr	tried to remove an open driver
-26	dInstErr	DrvInstall couldn't find driver in resources

-27	abortErr	IO call aborted by KillIO; Publisher has written a new edition "OR"
-27	iIOAbortErr	IO abort error (Printing Manager)
-28	notOpenErr	Couldn't rd/wr/ctl/sts cause driver not opened
-29	unitTblFullErr	Unit table has no more entries
-30	dceExtErr	dce extension error

File System Errors

-33	dirFulErr	Directory full
-34	dskFulErr	Disk full
-35	nsvErr	No such volume; volume not found
-36	ioErr	I/O error
-37	bdNamErr	Bad file name; there may be no bad names in the final system!
-38	fnOpnErr	File not open
-39	eofErr	End of file; no additional data in the format
-40	posErr	Tried to position to before start of file (r/w)
-41	mFulErr	Memory full (open) or file won't fit (load)
-42	tmfoErr	too many files open
-43	fnfErr	File not found; Folder not found; Edition container not found; Target not found
-44	wPrErr	Disk is write-protected; Volume is locked through hardware
-45	fLckdErr	File is locked
-45	fLckedErr	Publisher writing to an edition
-46	vLckdErr	Volume is locked through software
-47	fbSyErr	File is busy (delete); Section doing I/O
-48	dupFNerr	Duplicate filename (rename); File found instead of folder
-49	opWrErr	File already open with write permission
-50	paramErr	Error in user parameter list
-51	rfNumErr	Reference number invalid
-52	gfpErr	Get file position error
-53	volOffLinErr	Volume is off line
-54	permErr	Software lock on file; Not a subscriber [permissions error on file open]
-55	volOnLinErr	drive volume already on-line at MountVol
-56	nsDrvErr	no such drive (tried to mount a bad drive num)

-57	noMacDskErr	not a Macintosh disk (sig bytes are wrong)
-58	extFSErr	External file system __ file system identifier is nonzero
-59	fsRnErr	file system internal error: during rename the old entry was deleted but could not be restored.
-60	badMDBErr	bad master directory block
-61	wrPermErr	Write permissions error; Not a publisher

Font Manager Errors

-64	fontDecError	error during font declaration
-65	fontNotDeclared	font not declared
-66	fontSubErr	font substitution occurred

Disk, Serial Ports, Clock Specific Errors

-64	lastDskErr	
-64	noDriveErr	drive not installed
-65	offLinErr	r/w requested for an off-line drive
-66	noNybErr	couldn't find 5 nybbles in 200 tries
-67	noAdrMkErr	couldn't find valid addr mark
-68	dataVerErr	read verify compare failed
-69	badCksmErr	addr mark checksum didn't check
-70	badBtSlpErr	bad addr mark bit slip nibbles
-71	noDtaMkErr	couldn't find a data mark header
-72	badDCksm	bad data mark checksum
-73	badDBtSlp	bad data mark bit slip nibbles
-74	wrUnderrun	write underrun occurred
-75	cantStepErr	step handshake failed
-76	tk0BadErr	track 0 detect doesn't change
-77	initIWMErr	unable to initialize IWM
-78	twoSideErr	tried to read 2nd side on a 1-sided drive
-79	spdAdjErr	unable to correctly adjust disk speed
-80	seekErr	track number wrong on address mark
-81	sectNFErr	sector number never found on a track
-82	fmt1Err	can't find sector 0 after track format
-83	fmt2Err	can't get enough sync
-84	verErr	track failed to verify
-84	firstDskErr	
-85	clkRdErr	unable to read same clock value twice
-86	clkWrErr	time written did not verify
-87	prWrErr	parameter RAM written didn't read-verify
-88	prInitErr	InitUtil found the parameter RAM uninitialized
-89	rcvrErr	SCC receiver error (framing, parity, OR)

-90	breakRecd	Break received (SCC)
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AppleTalk Errors

-91	ddpSktErr	Error opening socket "OR"
-91	eMultiErr	Invalid address or table is full
-92	ddpLenErr	Data length too big "OR"
-92	eLenErr	Packet too large or first entry of the write-data structure didn't contain the full 14-byte header
-93	noBridgeErr	No router available [for non-local send]
-94	lapProtErr	error in attaching/detaching protocol "OR"
-94	LAPProtErr	Protocol handler is already attached, node's protocol table is full, protocol not attached, or protocol handler pointer was not 0
-95	excessCollsns	Hardware error [excessive collisions on write]
-97	portInUse	driver Open error code (port is in use)
-98	portNotCf	driver Open error code (parameter RAM not configured for this connection)
-99	memROZErr	hard error in ROZ
-99	memROZError	hard error in ROZ
-99	memROZWarn	soft error in ROZ

Negative Error Codes (-100 to -199)

Scrap Manager Errors

-100	noScrapErr	No scrap exists error
-102	noTypeErr	Format not available [no object of that type in scrap]

Storage Allocator Errors

-108	memFullErr	Ran out of memory [not enough room in heap zone]
-109	nilHandleErr	GetHandleSize fails on baseText or substitutionText; NIL master pointer [handle was NIL in HandleZone or other]
-110	memAdrErr	Address was odd, or out of range
-111	memWZErr	Attempted to operate on a free block; GetHandleSize fails on baseText or substitutionText [WhichZone failed (applied to free block)]
-112	memPurErr	Trying to purge a locked or non-purgeable block
-113	memAZErr	Address in zone check failed
-114	memPCErr	Pointer Check failed
-115	memBCErr	Block Check failed
-116	memSCErr	Size Check failed
-117	memLockedErr	Trying to move a locked block (MoveHHi)

HFS Errors

- 120 dirNFErr Directory not found
- 121 tmwdoErr No free WDCB available
- 122 badMovErr Move into offspring error
- 123 wrgVolTypErr Not an HFS volume [wrong volume type error or (obsolete) operation not supported for MFS]
- 124 volGoneErr Server volume has been disconnected.
- 125 updPixMemErr Insufficient memory to update a pixmap
- 127 fsDSIntErr Internal file system error

Menu Manager Errors

- 126 dsMBarNFnd System error code for MBDF not found
- 127 dsHMenuFindErr Couldn't find HMenu's parent in MenuKey
- 128 userCanceledErr User canceled an operation

HFS FileID Errors

- 130 fidNotFound no file thread exists
- 131 fidNotAFile directory specified
- 132 fidExists file ID already exists

Color QuickDraw and Color Manager Errors

- 147 regionTooBigErrorRegion too big or complex
- 148 pixMapTooBigErr Pixel map record is deeper than 1 bit per pixel [passed pixmap is too large]
- 149 notEnoughStack Not enough stack space for the necessary buffers "OR"
- 149 mfStackErr Insufficient stack
- 150 cMatchErr Color2Index failed to find an index
- 151 cTempMemErr Failed to allocate memory for temporary structures
- 152 cNoMemErr Failed to allocate memory for structure
- 153 cRangeErr Range error on colorTable request
- 154 cProtectErr ColorTable entry protection violation
- 155 cDevErr Invalid type of graphics device
- 156 cResErr Invalid resolution for MakeTable
- 157 cDepthErr Invalid pixel depth
- 158 cParmErr Invalid parameter

Resource Manager Errors (other than I/O)

- 185 badExtResource Extended resource has a bad format.
- 186 CantDecompress Resource bent ("the bends") can't decompress a
- 188 resourceInMemory Resource already in memory
- 189 writingPastEnd Writing past end of file
- 190 inputOutOfBounds Offset or count out of bounds

- 192 resNotFound Resource not found
- 193 resFNotFound Resource file not found
- 194 addResFailed AddResource failed
- 195 addRefFailed AddReference failed
- 196 rmvResFailed RmveResource failed
- 197 rmvRefFailed RmveReference failed
- 198 resAttrErr Attribute inconsistent with operation
- 199 mapReadErr Map inconsistent with operation

Negative Error Codes (-200 to -261)

Sound Manager Errors

- 200 noHardware Required sound hardware not available [no hardware support for the specified synthesizer]
- 201 notEnoughHardware Insufficient hardware available [no more channels for the specified synthesizer]
- 203 queueFull No room in the queue
- 204 resProblem Problem loading the resource
- 205 badChannel Channel is corrupt or unusable [invalid channel queue length]
- 206 badFormat Resource is corrupt or unusable [handle to 'snd' resource was invalid]
- 207 notEnoughBufferSpace Insufficient memory available
- 208 badFileFormat File is corrupt or unusable, or not AIFF or AIFF-C
- 209 channel Channel is busy
- 210 buffersTooSmall Buffer is too small
- 211 channelNotBusy Channel not currently used
- 212 noMoreRealTime Not enough CPU time available
- 213 badParam A parameter is incorrect
- 220 siNoSoundInHardware No sound input hardware available
- 221 siBadSoundInDevice Invalid sound input device
- 222 siNoBufferSpecified No buffer specified
- 223 siInvalidCompression Invalid compression type
- 224 siHardDiskTooSlow Hard drive too slow to record
- 225 siInvalidSampleRate Invalid sample rate
- 226 siInvalidSampleSize Invalid sample size
- 227 siDeviceBusyErr Sound input device is busy
- 228 siBadDeviceName Invalid device name
- 229 siBadRefNum Invalid reference number
- 230 siInputDeviceErr Input device hardware failure
- 231 siUnknownInfoType Unknown type of information
- 232 siUnknown Unknown quality

Quality

MIDI Manager Errors

- 250 midiNoClientErr no client with that ID found
- 251 midiNoPortErr no port with that ID found
- 252 midiTooManyPortsErr too many ports already installed in the system
- 253 midiTooManyConsErr too many connections made
- 254 midiVConnectErr pending virtual connection created
- 255 midiVConnectMade pending virtual connection resolved
- 256 midiVConnectRmvd pending virtual connection removed
- 257 midiNoConErr no connection exists between specified ports
- 258 midiWriteErr couldn't write to all connected ports
- 259 midiNameLenErr name supplied is longer than 31 characters
- 260 midiDupIDErr duplicate client ID

-261 midiInvalid command not supported for port type
CmdErr

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This article is one of many available through the Apple Fax center. For a complete list of available Fax documents, search the Tech Info Library for Apple Fax Document Index or call the Apple Fax line at 1-800-505-0171 and select document number 20000 (Apple Fax - Document Index - Product Support Literature). The Apple Fax center is available free of charge 24 hours a day, 7 days a week.

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20 Nov 1995 - Added new keyword and reviewed article for technical accuracy.

19 Oct 1994 - Added negative error codes.

12 Oct 1994 - Added keyword, description, and troubleshooting tips.

30 Nov 1993 - Reviewed and reorganized.

Support Information Services

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Apple and the Mac Are Back!!!!!!!!!!!!

by Don Fitzwater

Submitted by Tom Ostertag

Okay Mac friends - check out this info from the WWDC this morning...

Apple's presentation this morning focuses on its new product strategy. The announcement included several "bake offs" showing the speed of the portables and consumer line. The AppleStore is down, but expect it to come back on line around 3 PM EST with BTO for the new PowerBooks.

1. Steve Jobs announcement included a discussion of its four-item product strategy with a focus on two distinct markets: Pro and Consumer markets—each of which was designed to have both a portable and desktop model. The PowerMac G3 filled the

Pro desktop niche, while the new PowerBook G3s filled the Pro portable niche. The newly introduced "iMac" filled the desktop consumer niche, but there was no word on the 4th product to fill the portable consumer market.

2. Jobs' announcement also included a new commercial, showed as work in progress, which is set to air in a few weeks. The new commercial was focused on the "Time and Place to show the power of the new PowerBooks."

3. Apple has introduced a new \$1299 233 G3 "iMac," its consumer Mac due out in August with a 233 Mhz PowerPC 750 ("G3"), 512k of backside cache, built-in 15" monitor at 1024x768 resolution, 100 Mbit ethernet, 32 Mb of memory (expand-

able to 128 Mb), 4 Gb HD, 24x Cd-ROM, 4 Mbit infrared, 12 Megabit USB, high speed modem, and keyboard and mouse. The machine is said to be translucent with an "exciting" new mouse and will come bundled with IE 4.0, AOL 4.0 (new version), AppleWorks (rebranded ClarisWorks), Quicken Deluxe '98, and FileMaker (as well other games, yet to be announced).

4. The \$1299 "iMac" won a "bake off" against a \$3000 compaq 400 MHz Pentium II, while the PowerBooks (both the 233 and the 292 Mhz version) beat the fast available Pentium II notebook, a 256 MHz model with "all the bells and whistles."

Apple Unveils New Product Strategy

Submitted By Bryan Lienke

Four Lines Include Exciting New iMac Consumer Desktop and PowerBook G3

CUPERTINO, California—May 6, 1998—Apple Computer, Inc. today unveiled the Company's new prod-

uct strategy for consumers and professionals, featuring two lines of portables and two lines of desktops. Today's announcement launches Apple back into the consumer market with innovative new products.

"These new product lines give

people what they want most, a lightning fast laptop and a striking new consumer Macintosh," said Steve Jobs, Apple's Interim CEO. "Apple leads when it expresses its vision through its products, exciting you and making you proud to own

a Mac."

Joining Apple's Power Macintosh G3 desktop computers are two new product lines, also based on the ultrafast PowerPC G3 processors and the world's easiest to use operating system, Mac OS:

iMac, the "excitement of the Internet and the simplicity of the Mac," features a striking design, easy Internet access, a gorgeous 15" mon-

itor and Pentium-toasting PowerPC G3 performance for \$1299.

PowerBook G3, combines elegant design with high performance, with displays up to 14" and over 1000 build-to-order configurations, starting at \$2299.

With the unveiling of its product strategy, Apple also made a commitment to introduce next year a low-cost mobile computer based on

Mac OS.

"Our design savvy and manufacturing efficiency will put a new generation of Macintoshes on the desktop and on the road," Jobs continued. "The same focus and passion that brings these products to market has also made us a healthier Company."

Computer Cuisine 5.0

by Mike McGee, <inaka@tdl.com>
submitted by John C. Hunkins, Sr.

Inaka Software Announces the complete recipe template for FileMaker Pro.

OAKLAND, Calif., May 4, 1998 — Inaka Software today announced that it has released the latest version of the popular recipe template for FileMaker Pro called Computer Cuisine 5.0. Computer Cuisine is by far the most efficient and simple way to manage your home recipe database. It's features include a well designed layout that makes adding, viewing, sorting, finding and printing a snap. In addition to the simple, yet highly graphical layout, Computer Cuisine allows you to add an infinite number of your own recipes to the existing database. And because Computer Cuisine uses FileMaker Pro as it's database engine, Computer Cuisine is fully cross platform compatible for both Macintosh and Windows users. Version 5.0 Includes:

- Over 1,000 recipes already entered for your convenience!
- Enhanced graphical layout with simple to use menus and icons!
- Expanded conversion menu for easy calculations to and from U.S. Standard and Metric!

- List your recipes by item, category, type, or servings! You can choose!
- A print menu which gives users the option of printing in color or b&w, and in a small or large format! (The small format folds to fit perfectly onto a 3x5" recipe card).
- Expanded sorting functions! The ability to sort huge recipe lists with one simple click!
- Fully compatible for both Macintosh and Windows users!

MENUS: Buttons are located at the top of the layout for added convenience. For example, just one of the buttons can sort all of your recipes with the click of your mouse! In the main menu, Computer Cuisine will alphabetically sort all of your recipes and give you a listing of your recipes from A-Z. This works much like the index in any cookbook you own, however, this index is updated every time you add or remove a recipe! Yet, that is just one of many functions Computer Cuisine has to offer!

And with the extensive search capabilities already built into the program, you will now be able to search through all of the entered recipes with the touch of a button! You don't even have to know the exact name of the recipe, or

ingredient.

PRINTING: Computer Cuisine also makes printing your recipes a snap. The Print Menu icon placed at the top of the layout, allows you to choose the size and color of your recipes in one stroke. Computer Cuisine has five printing options to choose from. The standard, or large size recipe will use the full paper size of (8 1/2 "x 11") for printing, to ensure an adequate amount of printing space. The small recipe size will print recipes that once trimmed and folded lengthwise, can fit perfectly on a (3"x5") index card! Last, is the Deluxe Print option. This will print a recipe with a similar look and feel much like the on-screen version.

PRICE: \$10 US. (Shareware)

Computer Cuisine rivals any commercial recipe program on the market for both Macintosh and Windows users. The easy to use menus and well designed layout make it the obvious choice for anyone who wishes to store their recipes in a database. At only a fraction of the cost of most recipe programs, Computer Cuisine can do it all.

Inaka Software's Home Page:
<http://www.tdl.com/~inaka/inakasoft/>

John Norstad announces Disinfectant has been retired

by MacCentral Staff
news@maccentral.com
(submitted by Brian D.
Bantz, bdbantz@bitstream.net)

Famed Macintosh software author John Norstad has posted a

letter to the Northwestern University ftp archive regarding the future, or lack thereof, of Disinfectant. Disinfectant is a freeware anti-virus utility that has found a niche on many a Mac system. We are sad-

dened to hear that its future development has been halted, but understand completely John's reasons for doing so. The letter is as follows:

Disinfectant Retired

Announcement and Press Release
May 6, 1998

I regret to announce that I am officially retiring Disinfectant, our free anti-viral utility for the Macintosh. The current version 3.7.1 is the last version. Disinfectant will not be updated for the new Autostart 9805 worm or for any future viruses, worms, or other Macintosh malware.

I made this decision not because of the new Autostart 9805 worm, but rather because of the widespread and dangerous Microsoft macro virus problem. I believe that there are now well over 1000 of these viruses, and many new ones are discovered every month. They are now a much more serious problem for Mac users than are the classic Mac system viruses. I simply do not have the resources to combat a problem which is this huge in scope and complexity.

I am aware that some Mac users do not use Microsoft Word 6 or

Excel 5 or later versions, and hence have still found Disinfectant useful. These people seem to be a minority, however. The majority of Mac users need a commercial anti-viral product. Disinfectant is not adequate protection, and hasn't been for several years. For this reason, I feel that there is little point in updating the program for the new worm. Doing so would, in fact, only provide a false sense of security, and result in more harm than good.

The following commercial anti-viral utilities are currently available for the Macintosh. All Disinfectant users should switch to one of these products.

- Anti-Virus Toolkit. Dr. Solomon's.
- SAM. Symantec.
- Virex. Dr. Solomon's.
- VirusScan for the Mac. Network Associates.

I began working on the Mac virus

problem and Disinfectant ten years ago, in the Spring of 1988, when the first Mac viruses began to appear. Disinfectant 1.0 was released to the public on March 18, 1989. I have been enormously gratified by the success of the program and its very kind reception by the Macintosh community. I'd like to take this opportunity to thank my many users for their support and encouragement over all these years. I'd also like to express my appreciation to the other members of the Mac anti-viral research community for their outstanding spirit of cooperation and public service which has made all of our products possible.

Nine years is a long run for any kind of computer software. It's time to move on.

John Norstad
Northwestern University
j-norstad@nwu.edu

Imation and Panasonic Announce Joint Development of SuperDisk Drive For USB Interface

Source: Business Wire

OAKDALE, MINN. (May 11) BUSINESS WIRE -May 11, 1998—Imation Corp. (NYSE: IMN) and Panasonic Industrial Company will develop the first SuperDisk drive for the Universal Serial Bus (USB) interface, officials of both companies announced today.

The announcement follows Wednesday's unveiling by Apple Computer of its new consumer Macintosh, iMac, which will feature two USB ports for peripherals. iMac will begin to ship in August, the same time frame in which USB SuperDisk drives also are expected to be available to iMac purchasers. Additionally, SuperDisk diskettes for the USB SuperDisk drive will be available through Imation's sales channels at that time.

The USB SuperDisk drive, like other SuperDisk drives, will be fully read/write compatible with today's PC-formatted 120 MB SuperDisk diskettes, 1.44 MB diskettes and 720

KB diskettes. It will also read and write existing Mac-formatted diskettes and Mac-formatted SuperDisk diskettes.

Further information about USB SuperDisk drive pricing will be forthcoming, officials added.

"As one of the co-developers of SuperDisk technology, Panasonic is pleased to lead in the development of yet another entry in the growing array of SuperDisk solutions," said Jeff Saake, general manager, computer components group, Panasonic Industrial Company. "The USB SuperDisk drive will be the logical storage choice for millions of iMac customers who adopt this innovative new product."

"With the impressive speed and power of iMac, users will be able to handle very large amounts of data in the form of graphics, sound and video files, and Internet downloads," said Ray Meifert, SuperDisk business director, Imation. "For millions of loyal Mac users, compatibility with

existing floppies is critical. Among available, high-capacity storage options, SuperDisk technology offers the advantage of compatibility with existing diskettes as well as 120 MB SuperDisk diskettes from Imation. We believe that iMac users will find USB SuperDisk technology as the best and most reliable tool to handle those high-capacity needs without giving up what they're used to using — standard 3.5-inch diskettes."

"We designed iMac to deliver all the things consumers want — the excitement of the Internet with the simplicity of a Macintosh," said Phil Schiller, vice president of worldwide product marketing at Apple Computer Inc. "Today's announcement from Imation and Panasonic shows that — at launch — iMac customers will have great add-on options to complement the Internet-age computer for the rest of us."

Panasonic Industrial Company (PIC), a division of Matsushita Electric Corporation of America, has

a long and distinguished history of serving the North American manufacturing sector. PIC's aim is to support local manufacturing with products, technologies, and services that promote its customers' immediate and long term goals. PIC's OEM industrial electronic components and subsystems are geared to a diverse range of industries. PIC operates as a marketing interface between its North American customers and the Matsushita Group's global manufacturing capabilities.

Imation Corp. supplies a variety of products and services worldwide for the imaging and information industry. Imation is a world-leading supplier of branded, removable media for data storage applications. Imation products are supported by a worldwide customer service organization. In 1997, the company generated revenues of \$2.2 billion. Imation employs approximately 9,500 people and is based in Oakdale, Minn.

Additional information about

Imation is available on the company's Web site at www.imation.com or by calling Imation toll-free at 1-888-466-3456.

CONTACT:

Imation Corp., Jason Thunstrom, (612) 704-3164 / jsthunstrom@imation.com or

Panasonic Industrial Company, Jeff Saake, Computer Components Group, (408) 942-2938

CorelDRAW 8 for Power Macintosh

Coming Soon! Corel PHOTO-PAINT(TM) 8 for Power Macintosh. standalone

CorelDRAW 8 for Power Macintosh
CorelDRAW 8 for Power Macintosh

Create brilliant designs every time with CorelDRAW 8 for PowerMacintosh.. Developed specifically for the Mac. OS, a key platform in the graphics design and publishing industry, this suite features new capabilities that complement existing design tools and offers interactive features that let you create the effects you've always wanted! Why Buy It? CorelDRAW 8 Illustration and Page Layout

- Feature parity and 100% file compatibility ensure an easy transition between Macintosh and Windows versions
- The fully customizable interface helps you increase your familiarity with applications and tools you already use
- Live interactive tools for Distortion, Blends, Envelopes, Fills, Transparencies, Transforms and Grids provide quick, yet powerful effects
- Create soft, feathered, directional drop shadows on any kind of object using the Live Drop Shadow tool
- Place an object or a group of objects, inside another object or group of objects, using PowerClip
- Apply fractally generated tex-

ured fills to give objects a natural appearance

- Unlimited levels of undo let you go back through your edit history
 - Industry-standard text handling and page layout features give you powerful page formatting tools
 - Advanced printing capabilities include support for Adobe PostScript 3, color separations preview, color separations/digital output and accurate trapping
 - Output your colors as expected with industry-standard Kodak Digital Science advanced color management technology-- press space for next page --
 - CorelDRAW 8 for Power Macintosh is fully recordable and scriptable using AppleScript, so you can automate your workflow and repetitive tasks
 - Integration is easy with Macintosh drag-and-drop support
- Corel PHOTO-PAINT 8 Photo Editing and Bitmap Creation**
- Feature parity and 100% file compatibility ensure an easy transition between Macintosh and Windows versions
 - The fully customizable interface helps you increase your familiarity with applications and tools you already use
 - Orbital and Symmetry painting modes let you generate incredible effects, such as rope strands
 - Soften or adjust effects by brushing to Blend, Smear, Smudge and

CorelDRAW demo

by John C. Hunkins, Sr.

The TC/PC Club has invited us to their June 9th TC/PC Graphics meeting. CorelDRAW will be featured. (If you would like more information about CorelDRAW 8 for the Power Macintosh, please go to Corel's web page at www.corel.com.)

The meeting will be held at the Bloomington KofC Hall, 1114 West 79th Street, Bloomington (Exit 494 at Lyndale, then south to 79th, and then west few blocks; the hall will be on the right)

Sharpen

- Create realistic brush-stroke effects using natural media paint tools
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- Support for the Adobe Photoshop plug-in interface standard lets you use third-party plug-ins for import, export and image-- press space for next page -- enhancement
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- Multiple Undo lets you select

individual steps from an edit history
•Support for 16-bit grayscale, 48-bit RGB image types and NTSC color is included

•Record even your brush strokes using AppleScript CoreIDRAW 8 for Power Macintosh is fully recordable and scriptable

•Integration is easy with Macintosh drag-and-drop support
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iMac, the first shot in Apple's new consumer campaign

by Dennis Sellers
dsellers@maccentral.com
(The author is Senior Editor, MacCentral, (www.maccentral.com), reprinted with permission)

Apple calls the iMac the "most original Macintosh since the original Macintosh." They may well be right. The new, funky-looking machine is the computer that Apple hopes combines all the possibilities of the Internet with all the magic of the Mac. Besides its snazzy looks, this low cost, consumer Mac ditches the traditional ADB ports and replaces them with USB ports. It also comes with Quicken 98, which would have been a shocker before yesterday's Apple/Intuit announcement (see our May 5 MacCentral news for details).

The iMac comes fully loaded at a price of only \$1,299 (US). The machine comes with a 233 MHz PowerPC G3 processor, 512K of back-side level 2 cache, 32 MB of SDRAM (expandable to 128MB), a 4GB IDE hard disk drive, Mac OS 8.1, two 12Mbps Universal Serial Bus (USB) ports, a 4Mbps infrared technology (IrDA) port, keyboard and mouse. Plus you get a built-in 24x speed CD-ROM drive, built-in 15-inch monitor (with 1024 x 768 resolution), built-in 10/100BASE-T Ethernet support, built-in 33Kbps modem, and built-in stereo speakers with SRS sound.

Expected to ship in 90 days or less, the iMac is one of the most eye-popping Macs to appear in some time. It sports a translucent case and keyboard and a stylish, redesigned

mouse. Bundled software includes Mac OS 8.1 Internet Explorer 4.0, AOL 4.0 (newclient), AppleWorks (the rebranded ClarisWorks), Quicken '98 Deluxe Edition, and FileMaker. Other games and included software will be announced over the next month or so.

The iMac is the first of several Apple products that will see the company aggressively pursue the consumer market. Steve Jobs, Apple's interim CEO and co-founder of the company, says Apple invented the consumer market with the Apple II and again with the Mac, but "got lost" someone along the way.

During today's press conference, Jobs said Apple will go after new customers and take business away from "the other guys." However, he also believes there's a lucrative market as the installed base upgrades. There are over 10 million Macs in homes and over six million in schools. The home Macs are, on average, 3.5-4 years old and due for upgrading or replacing. And the products school systems want are primarily those targeted for the consumer market. One of the keys to gaining headway in the consumer space is Apple's brand name, says Jobs.

"Over 100 million people have tried Apple branded products," he says. "There's no more loyal group of customers than ours. And Apple is a brand that stands up there with Disney, Sony, and Nike as a great consumer brand."

Jobs said those companies also

had their problems, but have rebounded strongly. Apple has come back, too, and this is only the beginning, he said.

"People underestimate the power of brand names in the world today," Jobs said. "As we're overloaded with information, brands become more and more important."

He said fashion is also important. And, in Apple's case, fashion means design.

"Our design group is phenomenal," Jobs said. "We're seeing some great designs coming out of Apple. How important is fashion? If you go back 10 years, the average American owned one watch. Because of fashion, the average American now owns seven watches. We believe Apple has a core competency in the fashion and design area."

The iMac is a marriage of the Mac with the Internet. Jobs says iMac is a "full blooded Mac" but targeted those customers who want to get on the Internet simply and quickly. He also says that this inexpensive machine is faster than ANY Pentium II you can get.

"It looks like it's from another planet, but a good planet," he said. "The back of the iMac looks better than the front of the other guys' products."

The iMac will hit the market in time for the back-to-school season and will also strengthen Apple's Christmas quarter, Jobs said.

Further information is available from <http://www.apple.com/imac/>.

The iMac: The VW Beetle of the Apple Product Line

by Greg Shea
(By permission of the author, this article was reprinted from his web page: "The Mac Crusader",
<<http://www.tiac.net/users/gssc>>.
Greg welcomes your comments to his e-

mail address: <gssc@tiac.net>.)

May 8, 1998

After the rather depressing picture I painted last week of the state of Mac at High Schools, I figured I

would pick a lighter more happy subject to talk about. That subject is the all-new (no I'm not grammatically deficient, Word 98 told me to

(continued on page 27)



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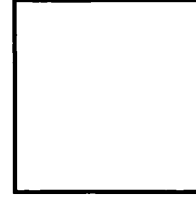
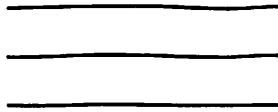
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(continued from page 24)

hyphen that) consumer Mac system announced last Wednesday, the iMac. All I could think of when I saw this cool little computer come spinning at me on Apple's website was the new reincarnated VW Beetle. In a lot of ways these two consumer products mirror each other (bear with me here it'll all make sense as I go on). Here is why the iMac is the VW Beetle of the Apple product line.

Its Affordable

The iMac is jam packed with cool features, but still packs a very reasonable price at \$1299. Granted some of the competition starts at \$999, but these rarely come with monitors and if they do, they usually are the cheapest piece of junk you'll ever see. Now the Apple display that comes with the iMac is good, or at least decent. Just like the Bug cars of old, iMacs are targeted to those who don't have a huge budget, but want a functional zippy little machine that will make them happy to own one. \$1299 is not too much to pay for all you get with this cool machine. It includes a ton of software, the built in display 15", USB ports, a 33.6K modem, a 4GB drive, fast Ethernet, a 233 MHz G3 PowerPC processor with 512K backside cache, and the coolest keyboard and mouse on the planet (of course fully customizable at the Apple Store when available). The iMac is one reasonably priced computer.

It Tramples the Competition

You just had to laugh when the iMac left the 400 MHz Compaq in the dust. The iMac isn't some under powered NC or yesterday's computer. This thing is downright zippy. Its got G3 power and get this, they didn't forget the cache. This thing would leave my PowerCenter Pro 240 gasping for breath, not to mention winning the fashion competition. It certainly packs enough punch for any of today's applications. Unlike the old VW Beetle this thing moves fast. Like the Beetle it is good value for the money.

Haven't we seen this before? Does the iMac look just a little familiar to anyone? Perhaps to the original Mac. Just like the new VW Beetle, it seems the iMac is a reincarnate of the old 1984 all-in-one Mac that captured the hearts of millions. Except, the iMac has a 90's look or perhaps a 21st century look. This all-in-one case has style. Comparing the look of the iMac to that of any other Mac or PC is like comparing a Dodge Viper to a Model-T.

It just makes you Smile :-)
Whenever I see a new or old Bug car it just makes me smile. It looks like happy. It has its own personality. The same thing happened when I first saw the iMac. First I said "Whoa" then I broke out in a wide grin. That alone is a reason to buy one. Every time you see one you just want to smile. I fell in love immediately.

The Down Side :-)

Unfortunately there are some flaws in this cute little translucent wonder machine. Where the heck are the floppy drive or Zip Drive or SCSI ports or PCI slots? The answer is, there aren't any. Now I can understand the lack of PCI slots. Afterall I haven't even used mine yet and I consider myself a power user. Unless you want a souped up gaming machine they are unnecessary for the average Net surfing, solitaire playing, word processing consumer. However you've got to get data in this thing somehow without resorting to a CD or a modem or a Ethernet network. This thing needs a floppy or a Zip, either through the USB ports or a change in the design before it ships else its going to be a hard sell. The SCSI ports I could also live without if they are replaced with USB counterparts. Also, How do we print to a printer without Ethernet plugs or USB? I think Steve Jobs is in his own reality distortion field on some of these issues. I haven't heard of any USB printers...There is time to change this stuff before August, so do it please. Either they need to put some old serial ports in or sell some adapters or the iMac could be an

iFlop. Some critics have complained about the 33.6K modem. They ask can't it be a 56K? First of all expense, the 56K modems are pricier to make and design. They would have to license/buy them from some company like US Robotics. Now I have a nice USR Sportster X2 modem and like it. However, I think 56K is one big gimmick. Half the time when I'm connected to a non 56K ISP locale I get faster rates and response than when I am connected to an X2 one. At 46.6 I often find response time unbearable. No matter how you try the Internet and modem connections are only so fast. Other than those obvious and debatable flaws the iMac is one of the coolest things to come from Apple in a while.

We can only hope and BUY If it weren't for the fact that I'm probably going to need a PowerBook in my hectic college life, I would consider the iMac for my dorm room. It just looks so gosh darn cool and packs a heck of a punch for the money. However for any other person looking for a new affordable computer, the iMac is definitely a choice to consider. So go buy one in August. I still might. Hey I can live with an iMac and a PowerBook G3. I don't know if my bank account would, but hey it's only money. So hopefully the iMac will become the success the Beetle was and is, so that one day twenty years from now people will trade in their \$5,000 G8s for a second generation iMac like the new Beetle is selling today. One can only hope.

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