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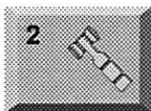
Volume 20, Issue 9



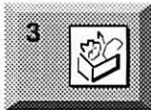
mini'app'les newsletter

the minnesota apple computer users' group, inc.

S E P T E M B E R 1 9 9 7						
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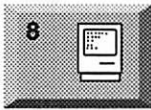
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mini'app'les members welcome.
Seward School,
2318 29th Ave. S., Minneapolis
Eric Jacobson, 603-9111



ClarisWorks SIG
Southdale Library
7001 York Avenue South, Edina
Denis Diekhoff, 920-2437



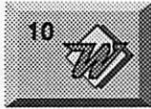
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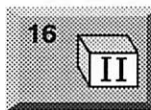
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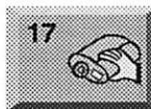
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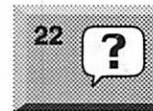
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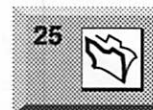
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Steve Wilmes, 458-1513



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No meeting this month
Will alternate with
Digital Imaging SIG

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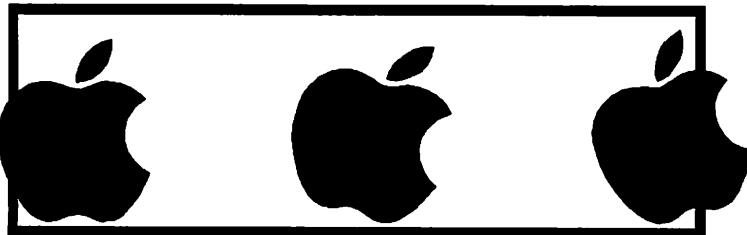
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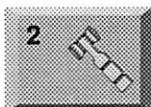
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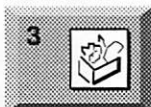
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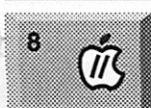
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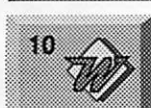
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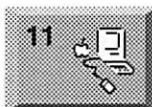
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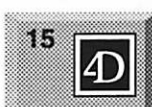
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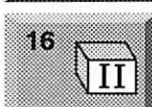
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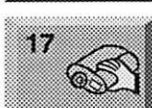
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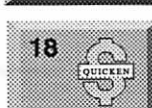
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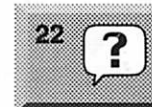
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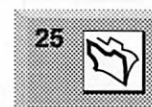
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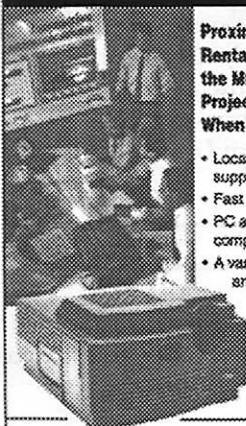
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CHANGE OF ADDRESS

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

Volunteer Opportunities

Come join mini'app'les members for some excellent volunteer opportunities. This is your chance to show us your computer knowledge and to help others along the way.

Computer Testing

Help Test Apple II equipment
 DragNet
 840 12th Ave NE, Minneapolis
 Sat. Aug 9 & 23, 9:30 AM
 Contact: Tom Gates, 789-6981



Cactus Software & Communications, Inc.

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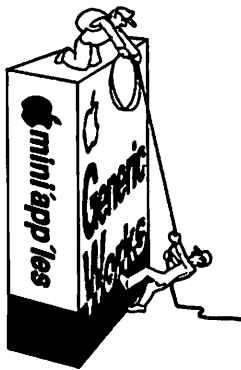
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Members Helping Members

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	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.			
Claris Draw	3				
Claris Resolve	2				
Claris 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				
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System 7	9				
Word Perfect	5				
New Users	11				
		AppleII	Key	AppleII GS	Key
		Appleworks	1,6,9	Hypercard GS	1
		Applewriter	6	Smartmoney GS	1
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		To. Superfonts	1		
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|---------------------|----------|-----|
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| 2. Brian Bantz | 956-9814 | DEW |
| 3. Mike Carlson | 377-6553 | D |
| 4. Eric Jacobson | 645-6264 | D |
| 5. Nick Ludwig | 593-7410 | DEW |
| 6. Tom Ostertag | 488-9979 | EW |
| 7. Ardie Predweshny | 823-5111 | D |
| 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.*

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1/6 page 2.5" Width x 5" Height \$20	Inside back cover . 7-1/2" Width x 10" Height \$120
1/3 page . . . 2.5" Width x 10" Height Vert or 5.5 H . . \$40	
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Mail inquiries to: PO Box 796, Hopkins, MN, 55343
Phone inquiries to: John Hunkins, Sr. 457-8949

September Telecom Meeting(9/4)



Submitted by Bert H. Persson

**Telecommunications SIG
Thursday September 4,
7pm Epiphany Lutheran
Church, 1414 E 48th St
South, Minneapolis.**

"Connecting to the "Net".

With the rapid expansion of the

Internet terms such as ISP, IP address, server, download, FTP, URL, WWW, Web sites etc has become part of everyday language.

Not a day goes by not hearing that you can "visit our Web site at www.somewhere.com", but what does that mean to the "newbie" Telecommuter just getting his/her feet wet?

At the September 4 Telecommunications Special Interest Group (SIG) meeting we will help you answer those questions and try to sort out other Telecommunication problems you might have connecting to the "Net". As always we will meet at the Epiphany Lutheran Church (7 pm) located at 1414 E 48th St South in Minneapolis.

Apple II Happenings

By Greg Buchner

Well, if you own a GS and are interested in Internet access, Richard Bennet (from Australia) is coming to the rescue. At K'Fest '97, he announced a IIGS control panel that he is currently calling Marinettie that does TCP/IP through a SLIP access. He did show it up and run-

ning at K'Fest, although there currently isn't much that supports it. He just had a simple program that did Telnet.

And, the best news... this program is to be freeware.

For more information on K'Fest, if you have internet access, go to:

<http://www.syndicomm.com/a2web/kfest/>

Or for information in the future about Marinettie, go to:

<http://www.zip.com.au/~kashum/marinette>

I will post more info as I get it.

New Apple II Product?



Submitted by Tom Gates

I was at Toys-R-Us last weekend getting a couple of birthday presents and happened to look down their growing aisle of software products and noticed that one of the "kids computer gadgets" on the shelf seemed to have an Apple-type logo (says "Apple Technology" on the flyer) on one of the gadgets.

It was the Tiger Learning Computer. "A real computer featuring Apple IIe technology used in thousands of schools." Says the flyer. It is the size of a Mac PowerBook. The cover is not a screen, it's a holder for six program cartridges. The base portion is a typical laptop/PowerBook keyboard type layout.

The unit comes with a two-button mouse (2-button?) back has mouse port (icon looks like ADB Bus icon), DB-9 joystick port, DB-9 serial port, DB25 parallel port and 2 RCA connections for Audio and Video. It uses a typical modem-type transformer with a plug-in at the back of

keyboard. It appears that the program cartridges are ROM-based. Each contains two programs. Flip a little switch on the cartridge to select the program. The cartridges are about 3/8 to 1/2 inch thick at most, about 2 1/4 inches square and plug into the left side of base.

The computer comes with six cartridges.

- 1.- two Scholastic math-type programs age 9-12
- 2.- Two MECC Science-type programs ages 8-15
- 3.- Two MECC programs English grammar/object classification ages 6-12 and 5-7
- 4.- Two StickyBear Typing / Keyboard skills ages 5-14
- 5.- RAMdisk - appears to be an EPROM of sorts for saving data to - listed as a storage disk for files
- 6.- now how about this one - AppleWorks v4.3 on the 6th cartridge!!!

Just hook this up to a TV using the RCA jacks. Ever wonder what

AppleWorks would look like on our 21" monitor TV? The unit has BASIC built in - I assume AppleSoft - so they can talk about learning programming. With a modem (on serial port) and an Internet Software cartridge - you have access to text-based internet - using a provider that has text (Lynx?) access.

There are at least a dozen additional titles/cartridges - several to Jr. High age range. One picture shows kids printing to a Lexmark inkjet printer (color?)

What will this set you back? How about \$165.



Tiger Learning Computer: Based on Apple IIe technology.

mini'app'les Gaming

By David M. Peck

Within mini'app'les, we have several hundred members of which most are not on the Bulletin Board. My guess is that there are some untapped gaming interests out there. Periodically, the MGG (mini'app'les Gaming Group) will get together for group Marathon and flight sims at one of our members homes. The size of the get togethers run from as little as 3 to as many as 6 or 8. We have a great time!

For those who are not familiar with Marathon, it's a first person shoot 'em up, similar to Doom in intent, but superior in execution. The game is spent rescuing humans and blasting every alien that dares to show his face. If familiar with Marathon, you might think that cause you conquered the solo versions of Marathon, Marathon 2, Infinity, Devil in a Blue Dress, and now Evil, that your the master of the game. May I blurt: WRONG! There is nothing in the game as dangerous as tangling with another human player. For myself, any thoughts of game playing superiority are quickly dashed once I find myself in a network game.

The best part of Marathon are the "Network" levels. Sized from small to large and rambling, these arenas are set up so you can fight other players. On a net game everyone has a computer with the first person view. Games are typically 10 min. long and whoever kills the most and dies the least wins. There are also King of the Hill and Kill the Man with the Skull games. Now this may sound violent and on the surface it appear that way (especially when you see bodies flying though the air). But on a more intellectual/spiritual level (g), it's a strategy game of reflexes. Forget about the dying part! As soon as you're killed off, you are reincarnated minus all of the neat weapons you had beforehand. If you are in your 20's like Zipster, Hollywood, or Thore, go for reflexes. If you're "older" like myself or Rotorhead,

consider strategy. It may be better to plan an ambush then meet one of the sharp shooters out on the flats.

You must have a Power PC Mac with EtherNet capabilities. On many Macs, EtherNet cards are available for as little as \$70. Players have been known to participate with 68040 machines (Quadra type), but it's tough because a small game screen is necessary to get the frame rate up to an acceptable level.

If you're interested in gaming within the club, the best way is to get onto the BBS (bulletin board). Messages for game meets are posted, sometimes with short notice. First Class is the software used for accessing, but if you don't have First Class, you can get onto the BBS with a ClarisWorks communication document, download First Class and then start participating!

A quick blurb on how to download First Class with ClarisWorks:

1. Open ClarisWorks Comm document.
2. Under Communication Setup, type in the phone number of the BBS (824-4394). Or simply select "Open Connection" from the "Session" pull down menu and ClarisWorks will ask you for the phone number.
3. Read what the scrolling text says. It might say something like hit "Return" twice to connect. If you see the word "(more)" at the end of a blurb, hitting "Return" will take you to the next page.
4. Once connected, you'll be prompted for your name and password. Type in your name, make up a password, and write them down for future reference.
5. As you hit return, eventually a list of Conferences will appear. Type in choice #6 "Client Software", Return, followed by #4 Mac Client, Return.
6. A long message will scroll by with the contents of the message and attached files description and lots of "(more)"s. Every time you see a

(more) hit the Return to go to the next page.

7. Somewhere at the end, you will be asked if you want to download any of the attached files. Type in "Yes", Return.
8. Then it will state, "Download FC Client? yes". Hit Return and the download process should start.

Warning : There is approximately a 30 min. daily time limit after signing on so get to downloading as soon as possible do you don't run out of time. If you have a 2400 baud modem, there could be a problem getting it downloaded before the time limit. I would suggest calling one of the Members Helping Members listed in the Newsletter.

After you get it downloaded and configured, you be able to connect to the BBS with First Class. There have been many articles in the mini'app'les Newsletter regarding getting onto the BBS that you can use for reference. Also check the Members Helping Members section on page 4 of the typical Newsletter for assistance.

I also believe that First Class Install Floppy Disks are available from the club. But if the getting onto the BBS is too much of a chore at this time, and your interested in gaming, give me a call at 423-5711 and I can put you on our "To Call" list. Happy Hunting!

MHC Computing
Macintosh™ Consulting
Individual & Group Training
Computer Problem Assistance

Mike Carlson
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Claris®
Solutions Alliance
Member

September Digital Imaging SIG Info

Submitted by Denis Diekhoff

The September 17th meeting of the Digital Imaging SIG will meet at Visual Impact Signs. It is located at 310 NE Johnson Street on the North West corner of East Hennepin and 35W (across the alley from the

Dairy Queen).

We will be getting a tour of their facilities and learn a little bit about how billboards and other types of signs are designed and manufactured. There will be some unique machines and processes that use dig-

ital images. It should prove to be an interesting time.

So if you've ever wondered how they make those signs...come on out for a tour!

Pam Works with ClarisWorks



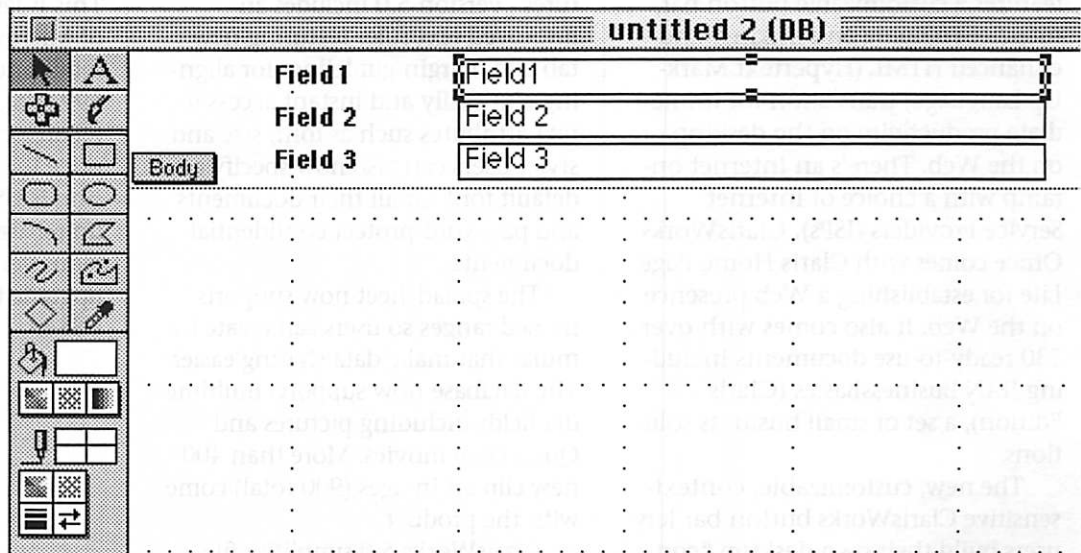
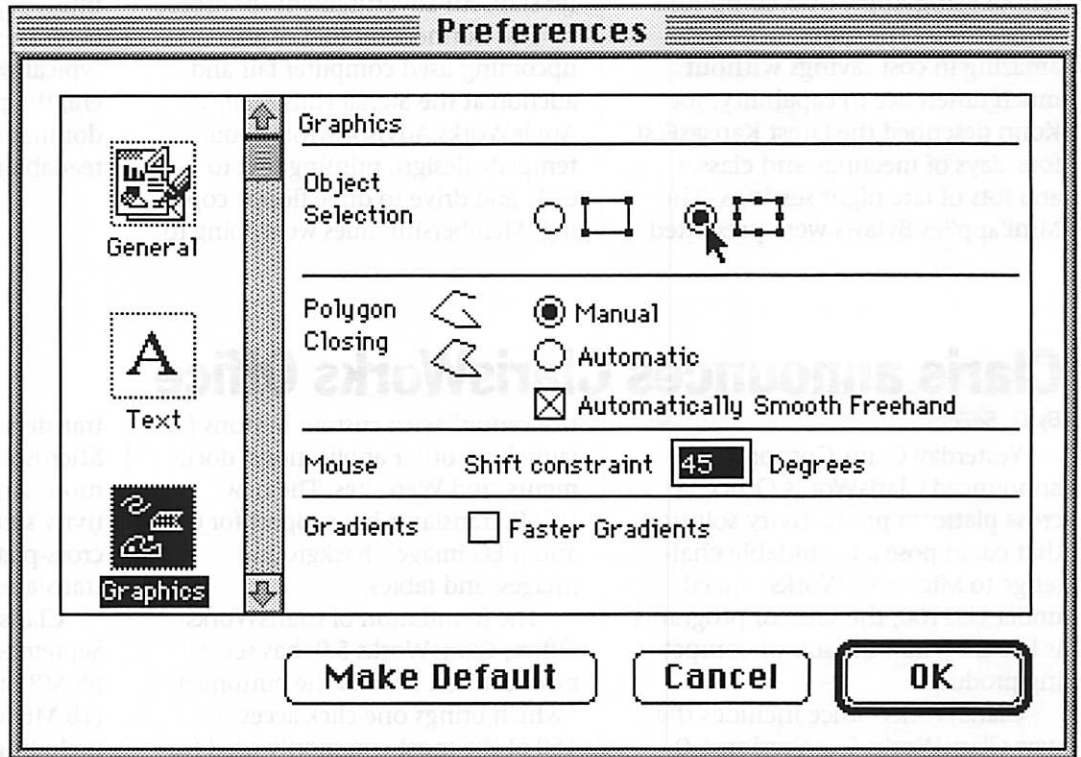
By Pam Lienke

I do a lot of work with databases. The default page layout is usually fine for entering data, but for reports I prefer to change the look of the page and often create a number of layouts. Since the default field size does not suit my needs, I change the height or width of some fields (a field is a container for a single category of information). Usually I have no problems; there are times, however, when I want to change only height or width, but end up changing both. To Resolve this, I change the preferences so there are more handles.

To create a new layout I must be in the Layout mode (select from the Layout menu). The Layout mode switches me to the draw environment where the fields and text are draw objects (I can't enter or view data in the Layout mode). Next I select Preferences... from the Edit menu. In the Preferences dialog box I select the Graphics icon. Under Object Selection I check the button indicating more handles (see screen shot). To make this option the default for all

databases, I press Make Default to leave this dialog box. I can now

change only height or width by grabbing the center handle.



What was happening in the Mini'app'les Newsletter

Compiled by Ken Slingsby

This series is presented to provide a link to our past. The snapshots of articles and advertisements appearing in the Mini'app'les newsletters of yesterday are meant to entertain and enlighten rather than to poke fun at our past. Enjoy.

5 Years ago...

September 1992. Roger Wagner explained the differences in cost for setting up a computer lab for a school using Apple IIGS computers vs. Mac LCs. The differences were amazing in cost savings without much difference in capability. Joe Kohn described the latest KansasFest, four days of meetings and classes and lots of late night sessions. The Mini'app'les Bylaws were presented

in their entirety. For trivia buffs, it takes three pages plus one half column to reproduce the bylaws. A review of Excel for the Mac took nearly as much space. Disinfectant 2.9 had just been released. There were 28 pages in this issue.

10 Years ago...

September 1987. Continuing with the glossy covers, this issue includes at least three e-mail addresses to get articles, etc. to the newsletter staff. An advertisement sponsored by The Connection told of an upcoming used computer fair and auction at the Signal Hills Mall. The AppleWorks Advisor wrote about template design, printing text to disk, and drive to drive floppy copying. Membership dues were going to

\$15. in a few months. A comparison of three Mac spell checker programs concluded that each of the three worked best with a specific word processor. There was a full page of want ads in this 20 page issue.

15 Years ago...

September 1982. This issue was particularly thin as the newsletter staff was gearing up for a special AppleFest edition the following month. A highlight of this issue is a multi page list of all the club members. The list was indexed. As was typical with the newsletter of this era, the publication was printed on a dot matrix printer (although quite readable). The issue was 12 pages.

Claris announces ClarisWorks Office

By D. Sellers

Yesterday Claris Corporation announced ClarisWorks Office, a cross-platform productivity solution that could pose a formidable challenge to Microsoft Works. Priced under US\$100, the suite of programs is less than half the size of competing products.

ClarisWorks Office includes the new ClarisWorks 5.0. Version 5.0 features a customizable button bar, Internet enabling and linking, and enhanced HTML (Hypertext Markup Language) translation for immediate productivity on the desktop or on the Web. There's an Internet on-ramp with a choice of Internet Service Providers (ISPs). ClarisWorks Office comes with Claris Home Page Lite for establishing a Web presence on the Web. It also comes with over 230 ready-to-use documents including JIAN BusinessBasics (Claris Edition), a set of small business solutions.

The new, customizable, context-sensitive ClarisWorks button bar lets users build their own desktop "con-

trol center" with custom buttons for launching other applications, documents, and Web sites. The new HTML translator has support for GIF and JPEG images, background images, and tables.

The foundation of ClarisWorks Office, ClarisWorks 5.0, has several new features. Besides the button bar - which brings one click access to 150 of the most commonly used features - version 5.0 includes an improved text ruler featuring new tab and margin guidelines for aligning text easily and instant access to text attributes such as font, size and style. Users can also now specify a default font for all their documents and password-protect confidential documents.

The spreadsheet now supports named ranges so users can create formulas that make data sharing easier. The database now supports multimedia fields including pictures and QuickTime movies. More than 400 new clip art images (900 total) come with the product.

ClarisWorks 5.0 simplifies file

transfers with translators for Microsoft, Lotus, Corel products and more. And it's still the only productivity suite that delivers complete cross-platform compatibility with no translation required.

ClarisWorks Office, due in September, requires 8 MB RAM and 68 MB of disk space for a full install (18 MB for a minimal install), including all clip art and templates. This is less than half the disk space of Microsoft Office 97. Estimated retail price for the Mac OS version is \$99 (US), with an upgrade/trade up rebate of US\$30. Estimated retail price for the Windows 95/NT4.0 version is US\$79, with an upgrade/trade up rebate of US\$20. U.S. users of previous versions of ClarisWorks can upgrade to just ClarisWorks 5.0 for US\$49.

Insanely Great Site

By Michael D Flaminio,
 <flaminio@insanely-great.com>
 Submitted By David M. Peck

The Insanely Great Mac has been a recognized source of information for the Mac OS community for almost two years. On Friday August 1st, Insanely Great Mac has jumped into the Mac web arena with both feet. We have expanded our services and our internet presence.

Insanely Great Mac offers the following services for the MacOS community:

Mac News Wire mailing list -

Get daily Mac news and commentary as it happen right to your email box!

Mac OS 8 Campaign -

Show the world your web page is made with the Mac OS 8 touch!

Mac Classifieds -

Buy and sell Mac equipment for free

Support BBS -

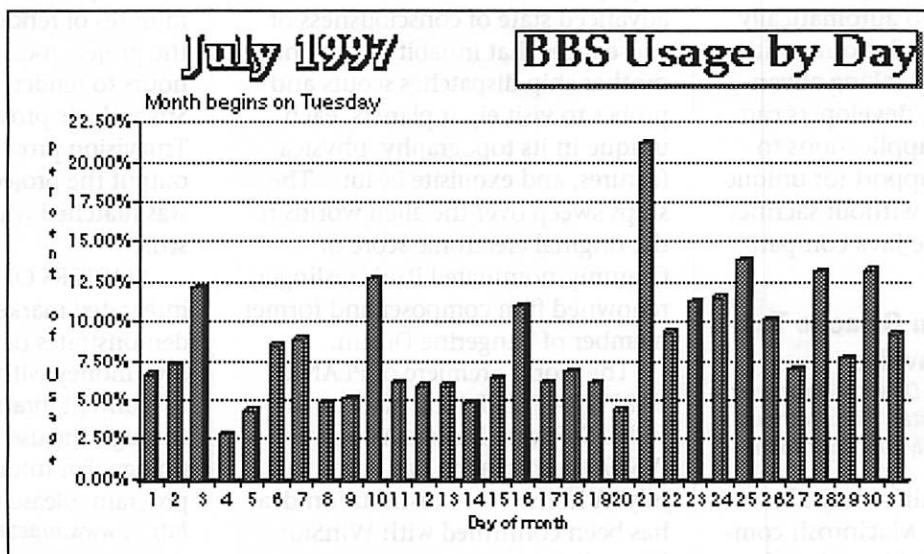
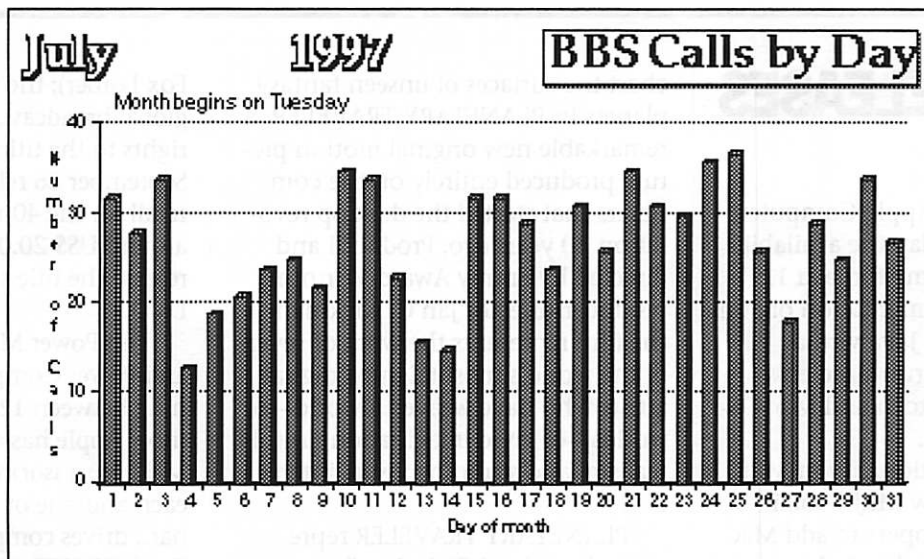
Free Mac support BBS. Ask or share secrets of Mac OS

Mac Links -

Hand picked links for Macs

Mac Voting Booth -

Share your opinions by voting
 Insanely Great Mac is now found at
 <<http://www.insanely-great.com>>



Good Deals #47

by Ken Slingsby

This is another installment in a series of articles which list press releases. All articles included here were posted on either Apple's web site or via the User Group Connection. These are roughly the same sources as prior articles in this series.

The PRESS RELEASES are to make you aware of the new products. You may have to hunt to find a dealer that supports the product. The GOOD DEALS are special offers that may be in limited supply. Many are limited time offers.

Mini'app'les makes no claim as to the usefulness or quality of the products offered herein. The User Group does not endorse the products and is not supporting the products. The following is not paid advertisement. There may be other products mentioned on our BBS or other services not appearing here. If so, that is an omission, not a refusal of the product. As in all purchases, buyer beware!

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PRESS RELEASES

MRJ 1.5 available

July 23, 1997—Apple Computer, Inc. announced today the availability of Mac OS Runtime for Java 1.5 (MRJ 1.5), an implementation of Sun Microsystems Inc.'s Java virtual machine (VM) and run-time environment for Macintosh and Mac OS-compatible systems.

Additional functionality in MRJ 1.5 includes the new MRJ Toolkit, which allows developers to add Mac OS-specific functionality to Java applications. MRJ Toolkit stubs are written in 100 percent Pure Java to allow applications taking advantage of the MRJ Toolkit to automatically run on non-Mac OS platforms without modification. By taking advantage of MRJ Toolkit, developers can easily extend their applications to provide excellent support for unique Mac OS advantages without sacrificing 100 percent Pure Java compatibility.

Apple Takes Off on Galactic Tour with Planetary Traveler

Emmy Award-Winning Director/Producer Jan C. Nickman's Digital "Film Without Film" Produced Entirely on Macintosh

CUPERTINO, Calif.—July 23, 1997—Apple Power Macintosh computers may sit on desktops, but they

chart the surfaces of unseen fantasy planets in PLANETARY TRAVELER, a remarkable new original motion picture produced entirely on the computers that started the desktop revolution 20 years ago. Produced and directed by Emmy Award-Winning producer/director Jan C. Nickman, the film represents the work of seven of the world's most talented digital artists who have weaved a world—or worlds—of vivid imagination, untold realism, and stunning visual intensity.

PLANETARY TRAVELER represents the "visual flight logs" of a long-lost race of highly intelligent beings, the Phleig. Drawn to a planetary system renowned for the advanced state of consciousness of those races that inhabit it, the Phleig mother ship dispatches scouts and probes to visit eight planets, each unique in its topography, physical features, and exquisite beauty. The ships sweep over the alien worlds to the original electronic score of Grammy-nominated Paul Haslinger, renowned film composer and former member of Tangerine Dream.

The world premiere of PLANETARY TRAVELER took place at the Video Software Dealers Association (VSDA) gathering in Las Vegas this July. A home video distribution deal has been confirmed with WinStar Home Entertainment (a division of

Fox Lorber); the Company holds global broadcast, video, and DVD rights to the title. Slated for a September 26 release, the suggested retail for the 40-minute film is around US\$ 20.00; Fox Lorber will release the title simultaneously on DVD.

Ten Power Macintosh computers and Power Computing Clones running between 120 and 180 MHz (now Apple has announced a 350 MHz processor) with at least 32MB each and one or two gigabyte-plus hard drives comprised the PLANETARY TRAVELER "render farm," which Nickman, L'Ongnon and artist Rob Sonner set up in Glendale and Carpinteria, California. At 20 minutes of render time per frame, the project took a total of 50,000 hours to render. Production sponsors Streamlogic provided disc arrays and Truevision provided the boards to output the project to video, where it was matched with Paul Haslinger's score.

MASTERS OF MEDIA is a fully integrated marketing campaign that demonstrates new ways to make and save money with intellectual property (content, brand, or other media) through the use of Macintosh technology. For information about the program, please visit our site at: <http://www.masters.media.apple.com/>

Apple Announces QuickTime Plug-in 2.0 for the Internet

New Version Brings Advanced Digital Media to the Internet; QuickTime Enables Access to the Vast Majority of Digital Media Content on Internet; New Plug-in to be Available Simultaneously on Windows and Mac OS

INTERNET WORLD EXPO, CHICAGO—July 23, 1997—Apple Computer, Inc. today announced the QuickTime Plug-in version 2.0 for Microsoft Internet Explorer and Netscape Navigator and Communicator. Slated for release in the fall of 1997, the plug-in will bring the advanced digital media capabilities of QuickTime 3.0 to the Internet including QuickTime VR 2.0 support, the ability to play alternate movie tracks, hotspots, and URL linking. The QuickTime Plug-in is planned to support most popular file formats, so that users can have a wide and rich experience with digital media content on Internet websites. The QuickTime Plug-in 2.0 is planned to be available simultaneously on Windows 95, Windows NT, and Mac OS, and will be available for download over the Internet from Apple's website, <http://quicktime.apple.com>.

QuickTime on the Internet

Leading websites such as MTV, BMW, CNN use QuickTime to make their websites compelling and interactive. Recently, QuickTime has even been used to bring news and events almost immediately to the Web, testifying to the quick development cycles for QuickTime content on several news websites. Recent examples include websites dedicated to diverse events such as The Masters Golf tournament, The British General Election and the Mars Pathfinder Landing—all of which utilize QuickTime technology.

AISS version 3.0 Available

INTERNET WORLD EXPO, CHICAGO—July 23, 1997—Apple Computer, Inc. announced today version 3.0 of its Apple Internet Server Solution (AISS). By including

new "best of net" software, Apple has strengthened this popular solution designed for its Workgroup Server hardware line. The new software included in AISS 3.0 provides increased functionality for customers who are tasked with content authoring, site management, and publishing.

Introduced in 1995, the Apple Internet Server Solution provides the software, which enables users to create, manage and publish media-rich World Wide Web or intranet content—quickly and easily across platforms. The Apple Internet Server Solution allows a website to be better integrated with organizational information systems by including software to query many of the popular and industry-standard databases.

According to Apple's product marketing manager for Server Products Bill McGlasson, AISS is the most cost effective tool currently available for Internet and intranet publishing.

New OS from Apple

*Apple Introduces Mac OS 8—Most Significant Macintosh Operating System Release Since 1984
Milestone Operating System Upgrade
Features Improved User Experience,
Best-of-Class Internet Integration,
Industry Leading Multimedia, and
Enhanced Performance and Stability*

CUPERTINO, Calif.—July 22, 1997—Apple Computer, Inc. today introduced Mac OS 8, the latest operating system software release for the Macintosh—and the most significant Mac OS upgrade since 1984. Mac OS 8 also represents the latest milestone in the Company's dual operating system strategy which includes the delivery of ongoing Mac OS releases and system updates, as well as Rhapsody, the code name for Apple's next-generation operating system. Mac OS 8 includes a multitude of new features and technologies to offer customers an improved user experience with increased productivity and efficiency, greatly simplified Internet access and leading-edge tools, state-of-the-art multimedia capabilities, and enhanced perfor-

mance and stability.

Improved User Experience, Greater Productivity and Efficiency

Mac OS 8 delivers a more advanced user experience, empowering customers with increased productivity and efficiency through improved system responsiveness, access and control, as well as scalable functionality for all user levels and a new, platinum appearance.

For optimized system responsiveness, Mac OS 8 features a multi-threaded, PowerPC-native Finder, enabling faster operations and multi-tasking such as copying files while simultaneously performing other operations. To give users more direct system access and control, Mac OS 8 offers unique spring-loaded folders which open when a file is dragged on top of them; pop-up windows that allow folders, hard drives or network volumes to be moved to the bottom of the screen in the form of a tab which can then be opened with a single click; and contextual menus which give a list of actions that apply to a selected icon, window or text when it is clicked while holding down the control key.

To meet the needs of all users, features in Mac OS 8 are scalable. Novice users may select the "View as Button" and/or "Short Menus" options for simplified access to applications and their documents.

Pricing & Availability

Mac OS 8 is expected to be available in the U.S. and Canada beginning July 26, 1997. The estimated retail price for Mac OS 8 in the U.S. is \$99 for the CD-ROM version. Current Mac OS 7.6. or Mac OS 7.6.1 owners will be eligible for a \$30 rebate, bringing the upgrade for those customers to U.S. \$69. Customers qualify for the upgrade rebate if they purchased the retail version of Mac OS 7.6, purchased a system that came with Mac OS 7.6 or 7.6.1, or received Mac OS 7.6 or 7.6.1 through the Mac OS Up-To-Date Program. Customers who purchase the retail version of Mac OS 7.6 in

the U.S. between June 1 and July 31, 1997 are eligible to receive Mac OS 8 for the shipping and handling charge of U.S. \$9.95 by calling the Apple Software Order Center at (800) 293-6617.

Mac OS 8 will be made available for purchase on CD-ROM only, however customers may request a floppy diskette version of Mac OS 8 after purchasing the CD-ROM version by returning the coupon included inside the box. The floppy version is available for \$25 plus \$6.95 shipping and handling and applicable sales tax.

Customers who purchase a qualifying Macintosh or Mac OS-compatible computer on or after June 22, 1997 that does not have Mac OS 8 installed or included can upgrade for the shipping and handling fee of U.S. \$9.95 through the Mac OS Up-To-Date Program. For more information, visit <http://www.macos.apple.com/macos/releases/fulfillment.html> or call (800) 335-9258.

System Requirements

Mac OS 8 works with most existing applications, extensions and drivers, and provides excellent backward compatibility. Mac OS 8 supports all 68040- and PowerPC processor-based Mac OS compatible sys-

tems. 68030-based systems, including those with PowerPC upgrade cards, are not supported. Mac OS 8 supports Common Hardware Reference Platform (CHRP)-based systems. At least 12 MB of physical RAM is required. With less than 20 MB of physical RAM, virtual memory must be turned on and set to at least 20 MB.

School Discounts from Apple

CUPERTINO, Calif.—July 17, 1997—Apple Computer, Inc. today announced a Back To School promotion that gives college students what they want most: cold hard 'cash back'.

Students purchasing selected Apple products from campus resellers between July 12 and October 10 will receive coupons good for rebates of up to \$300 (depending on the product). The top \$300 rebate is offered on the Apple Power Macintosh 6500. A \$200 rebate is offered on Apple PowerBook models 3400 and 1400 and on any Power Macintosh 7300, 8600, or 9600. Apple Power Macintosh 4400 and 5400 computers feature a \$100 rebate, while a \$50 rebate is offered on Apple peripherals, including printers, scanners, and the Apple QuickTake 200 camera. A

student can purchase any combination of products and qualify for each product's rebate.

The Back To School promotion is part of Apple's ongoing, highly original "Got It Yet?" marketing campaign targeting college students. The campaign started in May with a compelling sweepstakes featuring attractive prizes such as an Apple PowerBook 1400, an Apple eMate 300, a week at a snowboarding camp and a \$1,000 shopping spree. More than 100,000 entries are expected before October 10, and sweepstakes winners are being announced monthly.

Apple is supporting resellers with a variety of Back To School materials, including "Got it Yet?" ads, fliers, posters and t-shirts. Nearly 2,000 ads are scheduled to run between now and October 10 on more than 400 campuses nationwide. In addition, Apple has printed two million promotional fliers for use by resellers.

For more information on the "Got It Yet?" sweepstakes and Back To School promotion, please visit the following Apple websites: For students — www.campus.apple.com For resellers — www.reseller.apple.com

Apple Lowers Prices on Select Power Macintosh and Performa Computers

Cupertino, Calif.—July 12, 1997—Apple Computer, Inc. today announced that it has reduced prices made available to resellers on select Power Macintosh 6500 and Macintosh Performa 6400 series computers. Effective July 12, 1997, this move cuts prices on these popular computers by up to U.S. \$300. The price cuts are consistent with Apple's strategy of providing the industry's most powerful and easy-to-use computers at competitive prices.

The Power Macintosh 6500 line introduced in April 1997, gives customers a choice of systems ranging

in speeds from 225 to 300 megahertz, all with accelerated multimedia features; built-in Internet access capabilities; and, advanced video capture, edit and publishing options.

Power Macintosh 6500 series matches world class power with the competitive prices that consumers expect.

The Power Macintosh 6500 mini-tower systems are equipped with powerful integrated hardware and software components. Each come with a minimum 256K level 2 cache, with 512K standard on the 6500/275 and 6500/300 systems; 32MB to 64MB of RAM (expandable to

128MB); a 3GB or 4GB hard drive; 16-bit CD-quality stereo sound with SRS surround sound and integrated dual-mode subwoofer; and, Iomega Zip drives are standard in three models allowing customers to easily transfer large files, backup critical applications and expand storage capacity. The ATI RAGE II graphics acceleration chip provides Mac customers with video and graphics performance previously seen only in high-end systems. The 6500 series' advanced multimedia functionality includes accelerated QuickTime and QuickTime MPEG for impressive full screen, full motion movie playback;

accelerated QuickDraw and QuickDraw 3D for fast, fluid handling of complex 2D and 3D graphics; and, accelerated video capture for video editing, Internet video conferencing, and, general purpose image input.

Other standard features include 2MB of video RAM to support millions of colors on most 17" monitors, built-in 12x-speed CD-ROM drive, a built-in 33.6kps modem for fast "single-click" connectivity to the Internet and advanced telephony capabilities such as digital voicemail and send/receive faxing. Each system also comes with keyboard, mouse

and high-quality software bundles. Monitors are sold separately.

Macintosh Performa Series Combine Power PC Processor Technology and Affordability

The Performa systems are powerful, affordable desktop computers designed for families at home, individuals in small businesses, and college-bound students. Able to handle the most complex of computing tasks, the 6400/200 features the PowerPC 603e RISC processor, with RAM expandable to 136MB and a spacious hard drive for increased storage capacity.

Additionally, the 6400/200 Video Editing Edition adds advanced multimedia features such as video capture, creation and publishing with the award-winning Avid Cinema video-editing solution. This computer is an excellent choice for users who demand high-performance with many built-in capabilities.

Reduced prices made available to resellers on select Power Macintosh 6500 and Macintosh Performa 6400 series computers:

Actual U.S. prices may vary and customers should consult their local Apple authorized reseller.

Apple Boosts Performance of Popular PowerBook 1400 Notebook Computers

*Offering Increased Performance Across the Line; Processors Ranging from 133 MHz to 166MHz; Larger Hard Drives and Faster CD-ROM Drives
PowerBook 1400 Series PowerBook 1400 Features Pre-installed Software*

CUPERTINO, California—July 14, 1997—Apple Computer, Inc. today announced performance improvements to its popular PowerBook 1400 series of notebook computers, which were designed to address the general purpose mobile computing requirements in small office, home office, business, and education settings. The PowerBook 1400 line now includes a higher performance model with a 166MHz PowerPC 603e processor, as well as a dual scan display version of the 133MHz model. Additionally the line now offers larger internal hard drives and faster CD-ROM drives.

"The PowerBook 1400 family of notebook Macintosh computers continue to make powerful mobile technology both easy to use and affordable," said Philip Schiller, Apple's vice president of World-Wide Product Marketing. "The new PowerBook 1400 products deliver more value and performance with larger drives, larger L2 caches, and some of the fastest processors ever seen in an affordable line of mobile

products."

PowerBook 1400 Series

The new Apple PowerBook 1400 series offers three different configurations. At the high-end, Apple is offering a 166MHz model with an active matrix display. A 133MHz model with an active matrix display is now offered as the mid-range configuration, and the PowerBook 1400 entry level model's performance has been boosted from 117MHz to 133MHz and includes a dual scan display. All configurations in the PowerBook 1400 series use the PowerPC 603e processor. In addition to the new higher performance notebook, the PowerBook 1400 series now also offers larger hard disks, ranging from 1.3GB to 2GB (up from 750MB and 1GB, respectively); and 8x-speed CD-ROM drives. All configurations of the PowerBook 1400 now offer 128K of level two cache.

U.S. estimated selling prices for the three configurations range from around \$2,500 to \$3,500. (Refer to chart below for specifics on pricing and configurations.)

PowerBook 1400 Features

The PowerBook 1400 series features 16MB of RAM, two PC Card slots, and 16-bit stereo sound with

built-in speaker. The PowerBook 1400 series also comes with built-in infrared technology for easy, wireless file sharing with similarly equipped systems.

A versatile expansion bay on the PowerBook 1400 allows customers to use a variety of storage options available from Apple or third-party vendors, including a floppy drive, CD-ROM drive, additional hard drive, magneto optical drive, and Zip drive. A flip-up keyboard provides quick and easy access to two different types of expansion slots on the logic board, allowing users to easily customize the system according to their individual needs: A memory expansion slot on the logic board accommodates stackable memory cards, and an internal expansion slot accommodates additional capabilities such as Ethernet networking or support for an external monitor (video-out).

Pre-Installed Software

To provide a complete, mobile computing solution, all new PowerBook 1400 models come configured with Mac OS 7.6 or Mac OS 7.6.1 and a variety of productivity, utility, communications, and compatibility software. All pre-installed software are the full retail versions

and are also included with the notebook on CD disk. This software includes ClarisWorks integrated word processor, drawing program, database, communications program, and spreadsheet; Claris Organizer for tracking schedules and contacts; Apple Internet Connection Kit software, including Netscape Navigator, Claris Mailer Lite, Fetch, NCSA Telnet, and NewsWatcher; Apple Remote Access for easily connecting to a desktop or network from a remote location; and Macintosh Easy Open and DataViz Easy Open translators for reading and writing PC-formatted floppy disks and PC-formatted files.

Also pre-installed is Apple Location Manager, software that

makes it easy for PowerBook users to move from one location to another without having to spend a lot of time manually reconfiguring their computer with every move. Apple Location Manager allows users to assign specific settings for a variety of capabilities including networking, printers, time zone, file sharing, sound, frequently used applications, and even which extensions need to be in use. Once a location is set up, a user simply selects that location and the system recognizes the user's preferences for that environment.

Pricing, Configurations, and Availability

The PowerBook 1400c/166, with a 166 MHz PowerPC 603e processor,

16MB of RAM, a 2GB hard drive, 8x CD-ROM drive, 128K level 2 cache, a 1.4MB Apple SuperDrive, and a 11.3-inch active-matrix SVGA color screen is expected to be available in late July and is expected to have a US target price of around \$3,500.

Estimated US retail pricing for additional new configurations of PowerBook 1400 series below:
**Prices are U.S. estimates only. Prices and availability of the systems may vary among resellers and by country. The enhanced PowerBook 1400 configurations are also expected to be available in late July and will replace previous PowerBook 1400 configurations.*

Apple's Ultralight PowerBook 2400c Ships w/Mac OS 8

PowerBook 2400c to Ship in August with New Operating System

CUPERTINO, Calif.—July 14, 1997—In an effort to ensure PowerBook customers get immediate access to Apple's latest system software offering, Apple Computer, Inc. today announced that the PowerBook 2400c will ship in August with Mac OS 8 pre-installed on the system. This announcement, which represents a slight delay in the US availability of the PowerBook 2400c, satisfies the majority of PowerBook customers who indicated they would prefer to purchase this new notebook with the latest operating system release. The PowerBook 2400c was originally scheduled to be released in US at the end of July with Mac OS 7.6.

The high-end PCI-based PowerBook 2400c, shipping since May in Japan, was designed by Apple with collaboration from IBM Japan as part of an OEM agreement and is exceeding all initial expectations in that market. The PowerBook 2400c targets mobile professionals who require a lightweight, yet powerful portable computing solution.

Mac OS 8

Mac OS 8 is a major system software upgrade from Apple, scheduled to be available in the US on July 26. Mac OS 8 includes an easy Internet set up feature that steps the user through choosing an Internet Service Provider (ISP) or network connection, access to market-leading browsers from Microsoft Corporation and Netscape Communications, and new Internet features such as Personal Web Sharing and Personal Net Finder. As well as continuing to enhance Apple's market leading multimedia capabilities through the QuickTime Media Layer, Mac OS 8 has a new 3D look and feel, a multi-threaded native PowerPC processor Finder, and "spring-loaded" folders and pop up windows, increasing the system's ease of use.

PowerBook 2400c

The PowerBook 2400c will be available in one configuration: 180MHz 603e processor, 256K level 2 cache, 16 MB RAM, 1.3GB IDE hard drive, 10.4-inch (diagonal) active-matrix diagonal color display, two PC Card slots, built-in audio, and 16-bit stereo sound recording and playback; and built-in ports for 16-bit video out, ADB, SCSI, Serial,

and FDD connectors. The notebook ships standard with an external floppy disk drive and comes with a lithium-ion battery for longer use. The PowerBook 2400c measures 10.5-by-8.4-by-1.9 inches, weighs just 4.4 pounds.

In addition to the Mac OS 8 operating system pre-installed, the PowerBook 2400c comes configured with a variety of productivity, communications, and compatibility software. This software includes ClarisWorks productivity applications, Apple Remote Access for easily connecting to a desktop or network from a remote location; and Apple Location Manager. Pre-installed software (including Mac OS 8) will also be available with the unit on CD disk.

PowerBook Product Line

Other products in the PowerBook line include the PowerBook 1400 series, released last year to address the general purpose mobile requirements of Macintosh customers in small office, home office, business, and education settings. In February of this year, Apple introduced the fastest notebook on the market today, the high-performance

PowerBook 3400, which targets the needs of Macintosh customers in business, higher education, scientific, engineering, and design settings who require the best performance,

multimedia, and communications from a notebook computer.

Price and Availability

The PowerBook 2400c is expected

to be available in the US expected by mid-August for an estimated retail price of approximately US \$3,500.

Apple Board Announces the Resignation of Chairman and CEO Gil Amelio

CUPERTINO, Calif.—July 9, 1997—Apple today announced that Dr. Gilbert F. Amelio, after consultation with Apple's board of directors, has resigned his positions as chairman of the board and chief executive officer, and that the Company is initiating a search for a new CEO.

Until a new CEO is hired, Fred Anderson, executive vice president and chief financial officer, will assume additional responsibilities for the Company's day-to-day operations, working closely with the board and the executive management team, which includes:

- Fred Anderson - executive vice president and chief financial officer
- Guerrino De Luca - executive vice president, Marketing
- Dave Manovich - executive vice president, Worldwide Sales and Service
- Jack Douglas - senior vice president, General Counsel and Secretary
- Jim McCluney - senior vice president, Operations
- Jon Rubinstein - senior vice president, Hardware Engineering
- Avie Tevanian - senior vice president, Software Engineering

During the interim period, Apple's co-founder and strategic advisor Steve Jobs will assume an expanded role as a key advisor to Apple's board and executive management team.

Heading the search for a new CEO will be a committee composed of Board Vice Chairman A.C. Markkula Jr., Apple Board Director and Chairman of the Board of E.I. du Pont de Nemours and Co. Edgar S. Woolard Jr., Executive Vice President and Chief Financial Officer Fred Anderson, and Apple's strategic advisor Steve Jobs.

"In recent months, Apple has made significant progress in addressing the crises which were threatening its viability," said Woolard. "In pursuit of the best interest of our shareholders and our customers, we now want to move forward and return the Company to growth and sustainable profitability. We believe that with a customer focused CEO and Apple's product and technology portfolio, the Company will have the necessary ingredients to return to success."

"The Company has improved its cash position, reduced operating expenses and improved product quality" said Anderson. "We have

also introduced a series of outstanding products, developed a long-term operating system strategy and consolidated our marketing and sales organizations. The executive management team is committed to continue to build on this foundation".

Ellen Hancock, executive vice president of Technology, has also announced that she will be leaving the Company. Her responsibilities have been reassigned to Avie Tevanian and Jon Rubinstein.

Apple will announce its third fiscal quarter results on Wednesday July 16, 1997.

Apple Computer, Inc., a recognized innovator in the information industry and leader in multimedia technologies, creates powerful solutions based on easy-to-use personal computers, servers, peripherals, software, handheld computers and Internet content. Headquartered in Cupertino, California, Apple develops, manufactures, licenses and markets solutions, products, technologies and services for business, education, consumer, entertainment, scientific and engineering and government customers in more than 140 countries.

WARNING: This computer runs under Windows, a known source of irritation, frustration, and expense. Prolonged exposure may cause feelings of fear and uncertainty leading to large consultant bills.

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