



RNAUG Newsletter

Volume 9, Number 1

January 1994

Federal Computer Week, 18 Oct 93

FEDS TUMBLE FOR ADOBE'S ACROBAT

Adobe Acrobat, a document management product from Adobe Systems Inc., has captivated the federal sector. Since its release this summer, the software package has been adopted as a cross-platform electronic communications tool by the largest government publishing operations, and its core technology has been proposed as a federal standard.

Acrobat makes it possible for users to share documents across different platforms without compromising the look and feel of the original format. While this technology has an obvious impact on the production cycle of federal publishing operations, Acrobat is also being viewed more widely as a dissemination tool.

"With this administration's emphasis on the need for an information infrastructure, they are encouraging people to look at this [kind of] technology," said Devra Kudeviz, national accounts manager for Adobe in its Vienna, VA., office. "Everybody in every agency is trying to figure out how to [share information] more efficiently and how to do it electronically."

Acrobat's core technology is the Portable Document Format (PDF), a file format based on Adobe's PostScript page description language. Because PostScript is supported across multiple hardware and software platforms, files transmitted in PDF can be accessed by different systems in their original form.

Acrobat, in its initial release, is available for Windows-based PCs and Apple Macintoshes. In the near future, Acrobat will also support the DOS and Unix environments.

PDF is important because it retains the original page design along with the data. Judy Russell, director of electronic information dissemination services in the Government Printing Office said design elements that are usually lost in electronic communications "contribute to the readability and usability of that document."

PDF reportedly will be included in a future release of the National Institute of Standards and Technology's Application Portability Profile, and it is being considered as the basis of a federal information processing standard.

Also, NIST and Adobe are reportedly working toward establishing a cooperative research agreement. NIST confirmed that is working with Adobe on several matters involving Acrobat technology and is expected to make related announcements in the future but would not release any details.

See Acrobat: Continued on Page 2

The New RNAUG Officers for 1994

- President..... Sheila Richarz
- Vice President..... Jim Clark
- Secretary..... Kathrin Hightower*
- Treasurer..... Nick Miller
- Publicity..... Jim Ross/Ed Miltonberger
- Tech Representative..... Ingo Richarz
- Education Advisor..... Wes Sisson
- Apple II Special Interest Group
- Chairperson..... Alexander Siegfried
- 1st Co-Chair..... D. McMillin
- 2nd Co-Chair..... Jim Clark
- Macintosh Special Interest Group
- Chairperson..... Ned Langston
- 1st Co-Chair..... Clif Sayer
- 2nd Co-Chair..... R. Johnson

*subject to member's acceptance

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the Rhein Neckar Apple User Group

Acrobat *Continued from Page 1*

Sales of Acrobat, introduced in May and available in the federal market since July, reflect sharp interest among agencies in groupware technology.

"We're not seeing the sales activity ramp up; we're seeing it go almost straight up, said Jill Skanchy, business development manager for Adobe. "We are seeing some tremendous opportunities in Acrobat with federal customers—first for work group and department wide use, then actually division wide implementations."

"The General Services Administration is one of the early federal organizations testing Acrobat. Support for electronic document distribution comes from the highest levels of GSA, said Doyle Dodge, procurement analyst in GSA's Office of Acquisition Policy. GSA

Administrator Roger Johnson "understands the use of electronic media and what it can do for you," Dodge said. "Support like that makes it easier for us to put this in action and make it work.

Another early user is the Defense Printing Service. The service said it was interested in Acrobat because of the potential for scanning and electronically storing older documents while keeping the format of the texts intact.

But federal users are more interested in the distribution capabilities of Acrobat. GPO, in conjunction with GSA, has been testing Acrobat as a way to distribute CD-ROM based versions of the Federal Acquisition Regulation and the Federal Information Resources Management Regulation as well as technical and training manuals. The July issue of the FAR and FIRMR on CD-ROM included PDF-based documents and Acrobat software.

It's not easy to convert these kinds of documents into ASCII format because they involve many charts and graphs," GPO's Russel said. The bounds of ASCII had limited the value of putting these texts on-line. "People want the information, but they want it in a readable usable format," she added.

Acrobat also makes information more accessible on-line because of the efficiency of the PDF compression algorithms, according to Russell. The example, an Environmental Protection Agency document that used 3.5M as a PostScript file was reduced to 76K in PDF. Because access fees on electronic bulletin boards systems are based on file size, the PDF file "is going to be substantially less expensive and more accessible," she said.

Eventually, electronic distribution could make publishing more efficient, GSA's Dodge said. The FAR, which goes out to 72,000 customers, typically comes in two volumes—totaling 1,900 pages—plus another 500 to 600 pages of changes each year. With Acrobat, the government could put the initial regulations on CD-ROM, then issue updates via an electronic bulletin board system.

"When we get all the other agencies to put regulations on [CD-ROM], that's going to make a lot of difference," Dodge said.

The Internal Revenue Service also sees a potential for Acrobat in its efforts to make tax forms and instructions available to 355 sites throughout the United States, where the documents can be downloaded and printed, said Dan Solar, printing specialist at IRS publishing services, Washington, DC. "We think it's wonderful because we've never been able to display a 1040 form on a PC before except the one it's composed on," Solari said.

Acrobat also makes it possible for the sites to print tax forms in their original formats without buying the 12-font PostScript set tax forms require.

The Adobe Reader, which enables users to view and print files, costs \$50 vs. \$500 for the font set, Solari said. [The current MacWarehouse catalog lists the reader at \$25.]

The only drawback to Acrobat involves hardware, not the software, users said. PC users need at least a 386 to run Acrobat efficiently, and that can be a problem for some sites. [On the Mac, Acrobat requires System 6.0.5.] "It's state-of-the-art software, and the fact is, it requires state-of-the-art hardware to run it," said Bob Hernandez, who before a recent reassignment worked in DoD's public

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for users to share
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affairs office.

According to Hernandez, Acrobat has caught the attention of the Armed Forces Information Service in the Office of the Secretary of Defense, which is testing Acrobat as a way to distribute the EarlyBird, a daily publication for the Defense community, over the Pentagon's backbone network.

The process is very quick. With Acrobat, "we are able to get EarlyBird on the network 15 minutes before it's even on the street," said Walt Lang, deputy chief in the public affairs office.

NOTE: MacWorld gave Acrobat 3-stars in October 1993, and MacUser awarded 3-1/2 mice in December. 🍏

Special thanks to Nick Shestople for providing this article.

CORRECTION

The article, **Mac Home Journal vs. MacComputing vs. MacUser vs. MacWorld...** in the December 1993 issue of the *RNAUG Newsletter* was incorrectly attributed to Paul Kostelnik. It was, in fact, submitted by Nick Shestople. I regret the error.

— Editor

Minutes of January Meeting New Officers Elected for 1994

Mark Twain Village, Heidelberg—13 January 1994

President Jim Clark opened the January meeting welcoming the 30 attending members and guests and announcing a special prize during the drawing for those renewing their membership or joining tonight through the end of 1994 or ino 1995.

He also paid homage to long time member Mike Vargo who passed away this past December. For those unable to attend, Jim also described the memorial ceremony held on 5 January at the Benjamin Franklin Village chapel by Chaplain Harvey Brown, appropriately enough also a RNAUG member.

Jim informed the gathering of an offer from the User Group Connection for a video of a recent TV special about user groups. The cost of the video is \$12.00. Hank Lavagnini made the motion for RNAUG to purchase the video, Clif Sayer seconded, and the motion was carried.

Of concern to Apple II members was an article in the *Washington Post* that Apple Computer, Inc., had dropped the Apple IIe from further manufacture as of last November. There has been no official announcement from Apple to date.

Jim also briefly described the new AppleWorks 4.0. Though there were a few minor bugs with its initial release in November, Quality Computers quickly sent out a free version 4.01 update to registered users. The bugs involved the auto-save feature, editing the database clipboard from the **Other Activities Menu**, and mouse control.

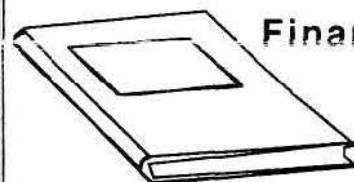
Apple Computer has spun off the Apple Users Group Connection as a separate organization so the new officers to be elected will be signing a new agreement concerning the release of system software upgrades. Unlike past versions, System 7.1 is not available for release by user groups but the hardware enablers used by System 7.1 are.

Clif Sayer then gave his monthly "Thumbs Up-Thumbs Down", the first going to Secretary Hank Lavagnini for erroneously attributing an article in the December RNAUG Newsletter to Paul Kostelnick. It was actually written by Nick Shestople. (*My deepest apologies, Nick - Editor*) Clif gave himself a "half-pinky" down for not writing more articles as he had meant to do. Clif then talked about changing Teach Text files on the Macintosh to a read only format. This is done by changing the file type which also causes the file to show a different icon. Clif brought a disk with some freeware/shareware programs that could make the change for anyone who might be interested. (*See Clif's article in this issue - Editor*)

Clif also noted that formatting 800k diskettes in a high density 1.44 drive could sometimes cause problems when later reading that diskette in a low density 800k drive.

In open discussion, a new member asked for assistance with a file that was not acting properly in ClarisWorks version 1.0. Several other members pitched in with ideas to solve the problem. The point was also made that new users should not be shy about bringing up problems. That is the whole purpose of

See Minutes: Continued on Page 4



Financial Statement

by Paul Kostelnik

ASSETS (26 January 94)

Checking Account.....	828.25
Petty Cash.....	21.50
Re-Inker Supplies.....	78.46
Public Domain Library.....	50.00

TOTAL ASSETS..... 978.21

TOTAL LIABILITIES..... 0.00

NET WORTH 978.21

INCOME (Jan)

Disk of the Month.....	0.00
Public Domain Disks.....	0.00
Re-Inking Service.....	0.00
Disk Sales.....	46.50
Ribbons.....	19.00
Book Sales.....	56.00
Apple II System Software.....	0.00
Miscellaneous.....	67.50
Membership Dues	
Apple II Users.....	00.00
Macintosh Users.....	82.00
Teachers.....	0.00

TOTAL INCOME..... 271.00

EXPENSES (Jan)

Door Prizes.....	0.00
Office Expenses.....	6.78
Miscellaneous.....	0.00
Returns.....	17.00
Disks, Ribbons, etc.....	0.00
Subscriptions.....	42.00

TOTAL EXPENSES..... 65.78

NET INCOME..... 205.22

The Rhein-Neckar Apple Users Group is a private organization of the 26th Area Support Group IAW USAREUR Reg 210-1.

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The RNAUG Newsletter is published using Aldus/Silicon Beach Personal Press 2.0 on a Macintosh SE/30 and printed on a Hewlett Packard DeskWriter C. For information, comments, ads or articles for publication, contact Hank Lavagnini, Editor, CMR 419 Box 468, APO AE 09102, 07268-1519.

the Rhein Neckar Apple User Group

Minutes *Continued from Page 3*

having a user group.

Business then moved on to the election of new officers and volunteers to provide various RNAUG services. Clif Sayer jumped right in and volunteered to take over the ImageWriter ribbon re-inking duties.

Jim Clark then had each of the current officers describe their current duties so that potential nominees would have an idea of what they would be doing. Nominations were taken and placed on the blackboard. After a complete slate of officers had been nominated, the membership voted to approve the slate 29-1. The new officers are:

President.....	Sheila Richarz
Vice President.....	Jim Clark
Secretary.....	Kathrin Hightower
Treasurer.....	Nick Miller
Publicity.....	Jim Ross/Ed Miltonberger
Tech Representative.....	Ingo Richarz
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Chairperson.....	Ned Langston
1st Co-Chair.....	Clif Sayer
2nd Co-Chair.....	R. Johnson

The election was followed by the monthly raffle and then the meeting broke into the special interest groups. In the Apple II SIG, Jim Clark hosted a video on the new AppleWorks 4.01. In the Mac SIG, Ingo Richarz demonstrated a do-it-yourself microphone circuit board that allows older Macs to record sound. 🍏

It's Here and Available!

The RNAUG CD-ROM Drive

RNAUG now has an Apple Computer 300 CD-ROM drive that members can sign out and use. The drive's custodian is member Jim Ross. He can be contacted at:

HQ. 7th MEDCOM
Unit 29218 Box 85
APO AE 09102
DSN Telephone: 370-2548
Civilian Telephone: 06221-303296
Fax Number: 06221-300294
Email: rossj@h130.heid-amedd.army.mil

The drive may be signed out only by RNAUG members and includes our CD-ROM disk library. Those desiring to sign out the drive must provide the custodian a check for the value of the drive, approximately \$450, which is returned uncashed upon the return of the drive (unless there is loss or damage). The drive is normally signed out for a week. The member who desires to sign out the drive is responsible for picking up from and returning the drive to the custodian. 🍏



And oh those delays! They occur after a correct response has been given and it is time to select another answer: the time taken to return to the board is excruciatingly slow! They also occur when there is a wrong answer, by either a live player or a computer player. Ten seconds is allowed for an answer; the timer is reset for five seconds after a wrong answer, regardless of how much time had previously elapsed.

When playing by yourself against two computer players, the odds are stacked on your side (assuming you know the answers). The first computer player doesn't buzz in until at least five seconds have gone by, so there is no hurry for the one live player to punch in. I also noted that the computer players very often get wrong answers, although I have not yet figured out the algorithm for this. However there is no percentage in waiting to see what their answer might be, because you don't see it; you only hear Alex Trebek saying, "No, that's incorrect."

Nevertheless, Jeopardy is a trivia buff's delight, and there seems to be more than enough clues and responses to keep you busy for a long time. Stay tuned—I'll report when I start getting repeat puzzles.

One last note: the Final Jeopardy clues are real bears! I've not gotten one right yet.

Jeopardy (and Wheel of Fortune) from Gametek are \$24.95 each from your favorite Mac mail order dealer. 🍏

Jeopardy Long On Trivia, Also Long On Delays

by Nick Shestople

Many years after the DOS versions hit the streets, Gametek has finally come out with Mac versions of *Jeopardy* and *Wheel of Fortune*. Even though we have the shareware program "Phrase Craze," (the developer of which has since gone into limbo) we bought them both, *Wheel of Fortune* for my wife, *Jeopardy* for me.

So what about Jeopardy? It's great, albeit trying on your patience. It is also very unforgiving for spelling errors or minor errors in responses. An example of this was non-acceptance of the answer "Jimmy Stewart;" the program wanted "James Stewart." Also "Basque" bombed; the right answer was "Basques." And "Frostic" left the computer cold, whereas "Frosty the Snowman" was worth \$600.

Mac to Mac, Step by Step

by Clif Sayer

If you have ever wanted to back-up several Mega-bytes of files from one Mac's hard drive to another's, you know how time-consuming the job can be using floppies. If (like I was) you have been reluctant to get involved with networking because the thought of additional expensive hardware and software just doesn't seem worth it, then here is the kind of solution we all like - absolutely free! System 7 already contains the necessary software; the only hardware needed is a standard Mac printer cable to connect the two printer ports.

This info comes from the "Networking Basics Tour" disk that is part of the pack of eight system disks included with every Mac. That is, until recently. Now as a cost-cutting policy, many new Macs are being delivered with the system only on the the hard disk. On some new Macs, I did not notice the networking tour installed. So here is the procedure, step by step.

First of all, shut down and unplug both computers. This might not be strictly necessary, but extra precautions don't hurt. Now use your standard Mac printer cable to connect the printer ports on the two computers. Plug your computers into the outlets, start up, and you're ready.

Note: As an additional safety measure, plug both computers into the same multi-outlet or power strip. There is an unconfirmed report of two Macs being zapped by an improperly wired house. The outlet on one side of the room was wired differently than the outlet on the other side. The resulting short circuit supposedly fried both machines.

I. Do this on the the first computer (Mac 1).

Note: You can save some time by placing all the files to be shared in a separate folder with a new name.

A. Starting File Sharing.

1. Under the Apple, open Chooser and turn on AppleTalk. Restart, if necessary.
2. Open Control Panel Folder (under the Apple).
3. Double-click Sharing Setup.
4. Type in names.
Owner Name: Mac 1 (for example)
Owner Password: Leave this blank, unless you are really concerned about secrecy.
Mac Name: (Your machine).
5. Click START. Close both windows.

B. Sharing the Folder.

1. Select the Folder(s) on Mac 1.
2. Under the File Menu, choose Sharing.
3. Click "Share this item and its contents".
4. Close the window.
5. Click SAVE.

II. Do this on the other computer (Mac 2).

A. Connecting to a shared folder.

1. Under the Apple, open Chooser.
2. Click on the AppleShare icon.
3. Click the File Server (the Mac Name)
4. Click OK.
5. Click Guest, then OK.
6. Select Folder(s) to be shared, then OK.
7. Close the window.

The shared Folder should now appear on the Desktop of Mac 2. It can be opened, used, and copied just as if it were a floppy disk.

Note: On Mac 1, the shared Folder will now have little faces on it to show that someone is using it. If you open the Control Panels and open File Sharing Monitor, the section 'Connected Users' will show Mac 2 and the amount of transfer activity.

Letters to RNAUG

Dear RNAUG,

I just purchased my first Mac a few weeks ago and decided to attend your last meeting to get help with some things I don't understand. However, first there was a long business discussion, then talk about an election, then a door prize drawing, and then as I was about to ask a question, some old coot jumped up and ranted on about his new hard drive. Everybody seemed to be using jargon that I don't understand and I sure didn't want to feel like a fool by saying something stupid. Before I knew it, the meeting was over and I went home somewhat disappointed. I think there must have been others who felt that way, too. How about devoting some Q&A time to the new people?

Ima B. Ginner

Dear Ima,

Will do! Bring that up at the next meeting (before the old coot jumps up) and we can start a Beginners' Section. But, really we're all beginners. Some of us just began sooner than you did, but we had most of the same questions then and we are more than happy to share our experiences with you now. That's the real reason for the club, and you are just as much a member as anyone else. Why not volunteer for one of the club offices? No need to be a computer expert to help with running the club. We all learn by doing, and your experience can help the club, too. Participation is the key word. You'll soon be using more of that jargon than the old-timers.

Dear RNAUG

That DiskCopy 5.0b1 upgrade that was passed around last meeting has bombed a couple of times on my Classic.

Bugged

Dear Bugged,

Oops, sorry about that! Go back to Version 4.2; we'll report it to Apple. If you already trashed 4.2, get another copy from the MacSIG.

That pesky TeachText file

by Clif Sayer

There are two common TeachText files that we often encounter: locked and unlocked.



Locked



Unlocked

The locked files are very, very locked, so that the normal unlocking methods (via Get Info, etc.) don't work. Sometimes, though, we would like to print out only part of the locked file, add some notes to it, or convert it to a word processor format for editing, font change, etc. We usually have to use a file editor (ResEdit, MacTools, etc.) that can access the file identifiers, **Type** and **Creator**. Since the Creator (TeachText) will stay the same, only the Type needs changing. Just change **ttro** to **TEXT**.

	Type	Creator
Locked:	ttro	ttxt
Unlocked:	TEXT	ttxt

The Icon of the file should now change to the unlocked form as shown above. Most word processors can open the unlocked file directly, but some may require also changing the Creator to the identifier for the program, as shown here for MacWrite II (merely as example).

MacWrite II: TEXT MWII

Here the Type must remain TEXT and not be changed to a MacWrite file Type.

The shareware (\$5) extension "GetMoreInfo 1.5" will allow you to change the identifiers without leaving the Finder. With it, you just click on the file to highlight it, then press Option-Command-I. A window will pop up with options for changing file attributes.

Another small shareware program that will do the same is "Changeling". This is an application that will first present you with the standard dialog window to find the file you want to change. Simple and fast.

A shareware substitute for TeachText called SaintEdit will open those locked files and allow some editing. Files can then be saved in SaintEdit format.

Note: **GetMoreInfo**, **Changeling**, and **SaintEdit** are available free of charge from your club's Shareware and Public Domain collection.



Get More Info



Changeling



SaintEdit

Pesky TeachText Files, Part two

Since compiling the info in the previous column, I have come across a few more share/freeware programs to view and/or edit file attributes. They are in various forms, i.e. applications, control panels, extensions, etc. As with all share/freeware, there is a certain risk of incompatibility with other programs. Applications are generally safest because they are inactive until opened as an independent program. Extensions are more likely to cause conflicts. If you have any problems with one of them, report it to the author and to your club. Then just use one of the others.

All of the utilities mentioned here will be included in the Disk of the Month, so you can try them all and use the one you like. Also, if you have a handy utility not mentioned here, please contact the MacSIG and we will include it in a future Disk of the Month. (Games are welcome, too).

FileFanatic Drag-and Drop App. that will globally change Type/Creator of groups of files of any kind (TEXT, GIF, PICT, etc).

FileTypeer Drag-and-Drop App. to edit attributes.

FileInfo CDev to view a file's attributes.

FinderInfo App. that changes a file's attributes.

GetInfo Drag-and-Drop App. to edit attributes.

Text<->ttro Fast and easy Drag-and-Drop App.that unlocks or locks TeachText files only.

All Thumbs

Thumbs up and compliments to Charles Onufer for the excellent review of the book **Voodoo Mac**. I keep your summary of tips, short cuts, and tricks taped to the front of my Mac. One question: where did you get that neat font that shows the Cmd, Option, Shift, etc. keys?

Many thumbs up and thanks to the past officers of the club. It will not be easy to fill your shoes. All the more reason to congratulate those brave souls who have volunteered to take over your responsibilities and keep our club alive for the new year.

From a reliable source, high praise for a book that will be a "must" for every Mac owner:

Macworld Macintosh SECRETS™

However, despite 9 Mb of shareware compressed onto three disks (included) and over 1000 pages of info, the \$40 cost is more than I want to spend for any book. Perhaps our club can get a group discount like for the other books last year. The book is advertised on page 206 of the JAN 93 issue of Macworld magazine.

the Rhein Neckar Apple User Group



The RNAUG NewsLetter runs For Sale and Wanted ads for the benefit of our members. If you would like to advertise hardware or software for sale, send your ad to Hank Lavagnini, RNAUG Newsletter, CMR 419 Box 468, APO AE 09102 or to Jim Clark, RNAUG President, CMR 420 Box 525, APO AE 09063. Be sure to include your name and your telephone or mailing address in your ad.

FOR SALE: APPLE IIGS SYSTEM

	Purchase Price	Sell Price
Apple IIGS CPU	\$1600	
1MB Apple Expansion Card	\$100	
AE RamKeeper Card (1MB)	\$189	
Slot Mover	\$31	
Apple IIGS RGB Monitor		
2 ea 3.5" Disk Drives & 5.25" Disk Drive	\$329	
Joystick	\$49	
FingerPrint GS Card	\$95	
Total	\$2393	\$1000
CMS 60MB Hard Drive	\$500	
ImageWriter II Printer	\$495	\$400
ImageWriter Sheetfeeder	\$189	\$150
Complete Package	\$3926	\$1750

CONTACT: Wes Sisson, Heidelberg High School, work: 370-8004, home: 06224-3783

DONATION WANTED

The Trinity Christian School is in need of a serviceable SCSI external hard drive for use with a Mac Plus. Any size drive would be appreciated. Your gift is tax deductible.

CONTACT: Chaplain Harvey Brown 380-6984 or 0621-732904

FOR SALE: '92 version Grolier Multimedia Encyclopedia CD-ROM. Asking \$75 or best offer.

CONTACT: C. Onufer, 06221-761842 or DSN 370-2826

COMPUSERVE IN KARLSRUHE? If you are interested in helping get a node going in Karlsruhe, contact Jim Lint on COMPUSERVE at 100117,3317 or you can reach him from Internet at 100117.3317@compuserve.com.

APPLE SYSTEMS FOR SALE

POWERBOOK 140 **\$1500.00**
4MB RAM / 40MB HD, System 7.0 Software

APPLE IIGS SYSTEM **\$850.00**

Apple IIGS CPU Apple IIGS RGB Monitor
AE 1MB GSRAM Expansion Card
AE Z80 Coprocessor Card AE Parallel Pro Card
3.5" Disk Drive 5.25" Disk Drive
CH Products Mach III Joystick Software

ORANGE MICRO GRAPPLER LX **\$50.00**

Use your Macintosh with non-Apple Laser, InkJet, and 24 pin printers. Includes spooler software.

Contact: Arthur Herpolsheimer
Work: 370-2287/2730
Home: 06227-52059 after 1900

PRINTER FOR SALE! \$390.00 obo

Like new Hewlett Packard DESKWRITER C color Ink-jet printer for the Macintosh. Comes with cable, 110v power supply, software drivers, manuals, one black and one color cartridge. The quality of this printer is demonstrated in this newsletter.

CONTACT: Hank Lavagnini, 07268-1519, or 380-8309

NEW, UNREGISTERED SOFTWARE FOR SALE

Berkeley Systems AFTER DARK screen saver.....\$25.00
ProVue PANORAMA database.....\$50.00
LaCie SILVERLINING harddrive formatting.....\$25.00

Here is a real deal if you want Claris FILEMAKER PRO!

FILEMAKER PRO will run you \$269 from most mail order firms. Buy RECORD HOLDER PLUS from me for \$40 and you can upgrade to FILEMAKER PRO for only \$109. That's still a savings of \$120 from the mail order price!

I also have the following used programs with original disks and manuals: Universal SoftPC 2.6, Full Impact 2.0s, WriteNow 2.2, Access PC 1.0, MS Works 2.0, and more

CONTACT: Hank Lavagnini, 07268-1519, or 380-8309

Now is the time to restock your computer supplies. RNAUG offers members the best prices for diskettes and ribbons.

Diskettes:

3.5 DD 800k disks	\$0.50 each
3.5 HD 1.44M disks	\$0.75 each
3.5 HD 1.44M disks	\$18.75 for 25
5.25 disks	\$0.30 each
Disk Labels	\$1.75 for 50

ImageWriter Ribbons:

Black	\$2.00 each
Color	\$6.25 each

Apple in the News

APPLE to License MAC Operating System!

According to an article in the 29 January 1994 issue of USA TODAY, Apple Computer will license its Macintosh operating system to other computer firms that make use of the PowerPC processor. If so, not only will you be able to run Microsoft Windows on your Mac, you may also be able to run your Mac programs on your IBM PC. Besides IBM, other firms mentioned as possible PowerPC users are Hewlett-Packard and Sun, major UNIX workstation manufacturers, and Groupe-Bull, which produces Zenith-Bull computers.

The PowerPC chip begins a new generation of very fast processors for personal computers. It has been jointly developed by Apple, IBM, and Motorola. While most publications have the PowerPC being introduced in this summer, the USA TODAY article indicated that it "could be on the market by March." 🍏



The PowerPC Family

The first in the new family is targeted for "low-end" desktop systems...but this low end will beat out a 68040, 80486, or Pentium. Available now.

The energy saving version is designed for the notebook market. To be available in mid-1994.

Not even in production in a computer and the 601 is already too slow. Look for the 604 in high end desktop workstations in mid-to-late 1994.

Whew! Look for this power user's Christmas fantasy by the end of 1994

601

603

604

620