

# DOUBLE CLICK

A Monthly Publication of Macintosh Users East (MaUsE)



June 1993

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## This Months Meeting June 23rd

By : Jim Foster

This months meeting will be on Wednesday June 23/93, at our regular location, St. Thomas Church, in Brooklin. A map showing the location of the church can be found on page 8 of this publication. Shareware disk sales start at 7:00PM. The meeting starts at 7:30PM.

<b>V</b>	<b>Very informal</b>
<b>A</b>	<b>All Macs</b>
<b>L</b>	<b>Low cost</b>
<b>U</b>	<b>Users decide topics</b>
<b>E</b>	<b>Educate</b>

June's V-A-L-U-E meeting is being arranged to allow for an unprecedented degree of member input to the agenda. Basically, with our new message telephone line (**Courtice: 433-0777**) in place, we are encouraging all MaUsE members to call and drop off their suggestions as to what programs, products, issues, or questions they'd like to see addressed at the meeting.

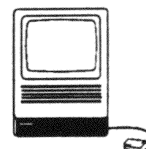
On the meeting night, various of the Executive and other volunteers will set up their Mac workstations where they will address as many of the requests submitted by members as possible. Using the message line for input, we will be able to take requests right up to 24 hours before the meeting.

Finally, if you are having a problem which is easier to display on your Mac than to explain in words, members are encouraged to bring along their own Mac. We will have lots of tables and floor space for you to use and consultation services, as usual, are free. Extension cords and power bars may not be necessary but, if you have one, we suggest you bring it along.

So call **433-0777** now and let us know what you'd like to see demonstrated or discussed. If you have a specialized interest and would like to act as one of the "content experts" at the meeting, by all means call and let us know ... we'll be glad to have your help.

See you later in June.  
Jim Foster

**MaUsE**  
Macintosh Users East



## Executive Contact List

Please feel free to contact any of the following individuals if you have comments or questions relating to Macintosh Users East or Macintosh computing in general.

Name	Position/Phone
Jim Foster	President Bus: (416) 644-7219 Oshawa Hm: (416) 432-0921 Oshawa CompuServe ID: 76366,566
Doug Kettle	Membership Chairman Hm: (416) 683-3214 Ajax
John Field	Programs Chairman Bus: (416) 644-4562 Oshawa Hm: (416) 885-8714 Port Hope
Bruce Cameron	Librarian Bus: (416) 644-4736 Oshawa Hm: (416) 983-9205 Orono
Chris Greenes	Exec-At-Large Hm: (705) 887-2508 Fenelon Falls
Hugh Amos	Double Click Editor Bus: (416) 683-4760 Ajax Hm: (416) 683-4320 Ajax
Justin Derrick	BBS Administrator BBS: (416) 723-5261 Oshawa Hm: (416) 728-1389 Oshawa
Dave McKinnell	Publicity Chairman (416) 436-9437
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## President's Message

Well, here we are half way through 1993 already! Time for a snapshot evaluation of what MaUsE has accomplished in the past 6 months and its challenges and opportunities for the future.

• I think our "most fun" accomplishment has been the creation of the new MaUsE BBS using the FirstClass™ software. While by no means accomplished without problems, it today operates pretty flawlessly and is so user-friendly that even "all-thumbs" ex-president John Field is able to logon occasionally from his palatial estate in Port Hope!

A lot of credit should go to Justin Derrick for providing the technical horsepower and the facilities which make the BBS possible.

• Membership levels have been rising, but not at the rate we had hoped. We are still targeting for that elusive goal of 100 paid up members but currently have about 60 to 70. We have certainly tidied up our membership recording keeping and dues collection procedures a great deal so that we are now better able to concentrate on attracting new members rather than chasing down our existing ones. Doug Kettle has done most of the work in this area.

• To this end, David McKinnell has joined the Executive and is focusing on the important area of Publicity. This is having a definite positive effect and should blossom even further as time goes on.

• Through the efforts of John Field, Wally Niedzielski, and others, we have had some excellent meeting presentations in 1993.

To all of the members who have contributed their time and efforts to realize these and other accomplishments, I want to say, "Thanks!". You have made my job much easier.

### Future Direction

• We always need to be seeking out involvement by more members in the activities of MaUsE. At the end of 1993, a number of the current MaUsE Executive members will be hanging up their mice to make room for new blood so we have to start thinking in terms of people to staff the Executive next year.

(continued on page 4)



Your Apple Macintosh Dealer in Durham Region  
333 King Street West  
Oshawa, Ontario Ph: 433-7033

# SoftArc Inc.

## Company Background

SoftArc specializes in network and communications software for Macintosh and PC platforms.

The company was formed by three former engineers and computer scientists who used to work at Bell Northern Labs. They came from a telecommunications software background, having worked on Digital Switch and high speed communications software. The President of SoftArc was the senior architect for the highly successful Meridian Mail® voice mail system.

SoftArc is a member of the Apple Partner Program, a privilege granted to relatively few commercial Apple software developers. This means that not only are we a "commercial developer of Apple-compatible products and services", but also a strategic commercial developer. Apple states:

"Apple finds membership in this program to developers who directly contribute to Apple's long-term product strategies and business objectives."

SoftArc's membership in the Partner's Program was granted on the strength of its FirstClass product.

Today SoftArc's FirstClass flagship communications product is sold around the world in more than 25 countries as well as in the U.S. and Canada. In total these systems encompass over 100,000 user mailboxes and 20,000 conferences.

FirstClass is used by businesses, educational institutions, government and private individuals. In addition there are a large number of public access online information services that use the FirstClass software.

## Contacting SoftArc

There are a variety of ways to get in touch with SoftArc. We can be reached through the mail by sending to:

SoftArc Inc.  
805 Middlefield Rd., #102  
Searborough, Ontario  
CANADA M1V 2T9  
Tel: (416) 299-4723  
FAX: (416) 754-1836  
FirstClass: (416) 609-2250  
AppleLink: C244054  
CompuServe: 70511.2305  
America Online: SoftArc  
Internet: softarc@satgate.softarc.com  
If you are using a FirstClass server with a gateway to SoftArc Online, our corporate FirstClass system, then send mail to:  
FirstClass: Sales.SoftArc.Online

## What Is FirstClass™?

FirstClass is used by businesses, educators, user groups, service bureaus, public services and all others who enjoy exchanging information easily using the Macintosh interface.

Why? FirstClass saves them money by combining electronic mail, file sharing, and electronic discussions seamlessly over networks and telephone lines and provides the world's best, most configurable graphical interface for doing so.

FirstClass combines the features of the following applications into a single integrated system:

- An complete office electronic e-mail package
- A network conferencing system (electronic discussions)
- A remote-access bulletin board system (BBS)

### Electronic Mail

As an e-mail package FirstClass provides a powerful mail system complete with office memo appearance, simple name based addressing, message tracking, multiple file attachments, sound and graphics attachment viewers, electronic forms, mail folders, automatic expiry dates, mail lists and more. With the FirstClass gateway option you can send mail to other FirstClass sites and to foreign systems such as CompuServe and the UNIX Internet.

### Conferencing

The electronic discussion features of FirstClass include multiple hierarchical conferences, invites for conferences, individual tracking of unread items on a per-user-per item basis, message tracking (who's read this, who's downloaded this file), public and private conferences, powerful permissions system, per-user customized conference layout, desktop subscriptions (aliases), user-to-user real time chatting and more. With Gateways you can share conferences with other FirstClass sites or with systems such as the UNIX Internet.

### Remote Access

All of the features are available over the network and over the modem. Modem access is highly efficient and includes background transfer of files while reading mail, chatting or using another system feature, the same graphical display as on the network, built-in support for high speed and compressing (V.42, MNP) modems, bulletin support of popular serial expansion cards and multiple incoming line support by a single copy of the server application.

### Bulletin Board Access

BBS Services include the same graphical user interface as above, the ability to access CD-ROMS, hard drives and file servers via the FirstClass server, administration monitoring of system activity, remote management of the system, powerful permissions and freeze control at user and group level, logging of important events to disk, making updates and downloads, custom topic support, statistics & billing system, topic based chatting and access for non-Macintosh computers via a command line interface similar to the UNIX shell and MS-DOS with a full screen VT100 editor.

## Who Uses FirstClass™?

As of September 1, 1992, SoftArc has sold systems which total over 100,000 FirstClass mailboxes and over 20,000 conferences in dozens of countries around the world.

Here are some of the places FirstClass is being used:

### - Business

FirstClass is used by many businesses as an integrated remote access Customer Support system and local office e-mail system. Clients can call in and leave mail, which provides immediate notification to the recipient who can then access the server over the network. Confidentiality on product information, Questions and Answers and technical information significantly reduce the load on support personnel. SoftArc's own system is used in this fashion.

Other companies find the network conferencing features of FirstClass combined with the remote access provide an excellent set of groupware tools for their various departments. People can develop ideas without actually meeting face to face via electronic conferencing, and by using the remote access feature from home, they can often work on a project away from the hassle of the office. Since FirstClass supports ANSI terminal emulation so well on Macs, users can connect remotely from any computer -- including minitank pocket organizer computers that are becoming increasingly popular.

Businesses which process electronic information find FirstClass an excellent way for them to exchange files with their clients and throughout their within the organization. A large number of Service Bureaus use FirstClass to allow their customers to send files and associated information directly to their premises without the need of a courier. Since FirstClass contains an integrated office mail system, there is immediate confirmation when a job arrives, and the service is available 24 hours a day, 7 days a week so clients may access it any time. Since FirstClass supports background file transfers, the client can be filing in requested documents and job specifications while the file is being uploaded.

Having e-mail, conferencing and remote access in a single package gives the necessary tools for group interworking at the fingertips of everyone in the organization.

Businesses using FirstClass that have authorized us to give out their names include:

Aldus, Cisco Systems, K-Mart, Eastman Kodak, Agfa, Adobe Systems, Dupont, General Electric, Pacific Gas & Electric, Microbiotique, Oracle Corporation, Space Telescope Science, TexasA&M Utilities, Schlumberger, Tridax Data Systems-Lockheed Martin & Space, The Barbering Company Ltd., Lorraine-Hill, Pacific Gas & Electric, Embassy Graphics, Brent Allen & Hamilton, Bert Papercraft, Motorola, Matheson Graphics

### - Education

FirstClass is used by school boards around the world to provide conferencing to teachers and administrators. One such system is SoNE run by the Scarborough Board of Education. With over 300 people online and over 40 conferences it is a very busy system. Its study area include customized discussions and the distribution of learning materials.

Since school boards often cover wide geographic areas, remote connectivity via inexpensive modems is important. Equally important is the FirstClass interface, which suspenses responses in often associated with telecommunications and is easy and fun for even the most computer-phobic person.

Extensive security features built into FirstClass not permit students to access only limited portions of the system without having to worry about sensitive information posted elsewhere.

Large educational installations using FirstClass that've authorized us to give out their names include:

University of Maine, University of Texas, University of Lancaster, Bony University, University of Arizona, Syracuse University, University of California, University of Portland, San Francisco State University

### - User Groups

FirstClass is liked by Macintosh User Groups because its graphical interface preserves the look and feel of the Mac arena when accessed through telephone lines. The software provides an excellent means for disseminating information, providing access to large file selections (including CD-ROMs), and facilitating on-line chatting between members. For mixed-computer user groups, the command line interface provides connectivity between Macintosh and other computers.

In Canada, the MAGOC user group operates a large and busy system in Toronto. It provides over 1 GigaByte of files and many special interest conferences plus it carries many Usenet News conferences. Anyone may access this FirstClass system by at (416) 288 1707. A settings file for this system is available in our FirstClass Systems conference.

In the U.S., one of the more popular public FirstClass systems is OneNet Live Alone operating in the heart of Silicon Valley. This excellent system boasts large file areas, uninvigable user base. It may be accessed at (415) 948-1349. A settings file for this system is also available in the FirstClass Systems conference.

BMOG, the world's largest Macintosh User Group, also operate a large FirstClass system.

### - Public Services & Government

FirstClass is used by government and public services. The U.S. Fire Department uses FirstClass as an e-mail and information service. Staff access their systems by network or remotely from fleets installed in fire trucks.

FirstClass can also be used to organize and store documents, and to air ideas and proposals to large groups of people without the need to meet constantly. Since many government departments contain a hybrid of Macintosh and PC machines, the interworking and support for both Macs and PCs provided by FirstClass either over the network or via remote access is especially important.

FirstClass can also be used to provide information services to the general public and the mass media via internet connections or the FirstClass fax gateway, which provides for broadcast fax transmission. This is an exciting way to disseminate information via government programs, policies and assistance while keeping the cost of running such a service low.

Government associations using FirstClass that've agreed to let us see their names include:

NASA, U.S. National Institute of Health

### - Private Individuals

FirstClass is popular with individuals who set up private information services as a hobby. Hundreds of FirstClass systems are used in this way. For those who own multiple Macintosh machines at home, FirstClass can provide a low cost file server and network transport system.

### - Around The World

As of this writing, FirstClass is running in over 25 countries around the world including the U.S.A., Canada, Chile, Australia, Denmark, Norway, Switzerland, Germany, Japan, Turkey, Malaysia and the Republic of Ireland.

## President's Message

(Continued from page 2)

• MaUsE is NOT a product or service where you pay your dues and the Executive provide a service. MaUsE is really nothing more than a collection of people who share a common interest in the Macintosh computer and wish to pursue ways to increase and share their knowledge about it. The dues exist to cover our basic operating expenses. NOT to provide a service to members.

• If you have ideas on how MaUsE could be more helpful to yourself or others, it is quite possible that YOU are the appropriate person to make this idea a reality. The existing Executive is there to support and guide member initiatives but not to carry out all of its wishes.

For example, over the past few months, I have had suggestions passed to me that some members would like to see a HyperCard nite, a QuickTime nite, or a Scanning/OCR nite. These are all good ideas but would become a reality much sooner if the suggester agreed to take on the job of organizing the guest speaker and presentation. The Executive can probably point you in the direction of some vendors but you would take on the job of contacting them and trying to set up a presentation.

• So, the challenge for the rest of 1993 and beyond, as I see it, is for MaUsE members to become even more involved in setting the direction of the club's activities. If you have ideas or proposals for events or administrative procedures, you are welcome to voice them to myself or other Executive members personally at meetings, come to one of our Executive meetings, bring them up as a discussion item on the BBS, or leave a message for us on the message line.

Have a great summer everyone, and enjoy your Mac's!  
Jim Foster

## Where is the PowerPC Mac?

By : Chris Greaves

"Apple demonstrates prototype Macintosh running on 80 MHz PowerPC 601 microprocessor."

Since late 1991 when Apple, IBM and Motorola announced cooperation on a new processor chip we've heard very little news. In May, Apple presented the new Mac at its Worldwide Developers Conference held in San Jose, California. The new generation of RISC (Reduced Instruction Set Computing) chips are the future for Mac and IBM PCs. They are called the 600 series RISC based PowerPC family of chips.

The first PowerPC Mac to ship will be a 601 Macintosh

in the first half of 1994.\*\* Later a lower cost 603 will put PowerPC chips in virtually every Mac and later PowerPC 604, 620 and beyond. IBM will use the 620 in their workstation. (Will IBM compete directly with Apple in the low cost PC market? Ho Ho. And what is market share Grand dad?) The 620 will be a faster chip as the 58040 computer series is now. These new PowerPC Macs will feed onto the market by consumer demand. (Will the price be as high as possible, as in the past, to milk the demand curve for new computers, holding new faster Macs back until they see you and I keeping our cheque ink dry? Ho Ho.) (Will Motorola sell the chip set to clone manufacturers? Ho Ho.) Santa sees price drops, unless we understand controlled market share, supply and demand and historic HIGH share returns.)

The Motorola 600 chip sets will be less expensive for Apple and IBM than Intel's Pentium chip. The Pentium chip for the MS DOS world will be fast, expensive and very hot - as in heat! It will likely be on the market before the PowerPC for IBM/Mac. (Isn't that interesting IBM/Mac - never thought I'd see that combo! IBMers have given up the blue suit image for beads and headbands.)

How much faster will my applications run? Will my old Mac programs run on PowerPCs?

Every new PowerPC system has an old Mac 680XX emulator in ROM. So your old applications (that are 68000 "clean") will run but not at full speed. The emulation is said to allow you to run at approximately Quadra speed - not a big increase in speed.\*\* Next are (that dreaded word) "UPGRADES" for the PowerPC. Upgrades will bypass the system ROM emulation and run directly on the Motorola 601 chip. Things like graphics, QuickDraw pictures, QuickTime movies will show faster but other applications will not really be that much faster.\*\* And finally full blown new PowerPC series 601 native code applications compiled to work in the new environment with improved performance.

It's interesting to learn that new applications for the PowerPC 601 could be 99% old Motorola 68000 code compiled for the new Motorola 601,603 or 604 chip! Once the manufacturer has compiled the PowerPC instruction set from old program code they can sell it as a NEW PowerPC application. Will the price for compiled old applications be the same, because the code is 99% the same? How will the PowerPC consumer know the difference?

And now for the good news. Exciting new uses for PowerPC Macs are in the offing. Speech recognition will allow real sentences to direct applications to do this or that command. Macros can be created that do several commands and setup to execute on voice command. ie. "Beam me up Scotty" voice command could open a file, change date, address, name and amount of money requested, insert models photo and print a letter and envelope. We'll see real time QuickTime movies, virtual reality headsets running "real situation." "you are in there" worlds, 3D rendering and who knows even HDTV on our

There is more. Apple is working on a new operating system called PowerOpen. An operating system is the first command set a computer responds to after power wakes up the internal ROM (read only memory). Examples are CP/M, Apple II 3.2 DOS, GS DOS, MS DOS, ProDos, Mac DOS, Windows DOS -well sort of. Apples PowerOpen will allow Mac applications to run on IBM workstations. Later we'll see a newer operating system called for now "PINK" for the PowerPC 600 series. (IBM computers running "PINK" DOS - oh boy.)

Are the old Macs dead? Hell no. This new alliance gives me great hope. Most of my familiar already paid for software will work on the newer machines. The Apple philosophy of retaining us old customers by making new computers run 80-90% of my present software has in the past made me an Apple Computer Inc. supporter. The new PowerPC chip set with system emulation ROM makes me think that any PC should cost no more than \$500. New software should stabilize at \$250 or less. And every PC will come with a multi-unit hand controller (old mouse) with built in mike.\*\* "Pass that PowerPC clicker Max I want to change CABLE channels." "Don't throw it!" "Ok. Ok." "Please pass the PowerPC..."

Chris Greaves is a former president of MaUSE, bon vivant and enjoys telecommuting from an electronic condo in Fenelon Falls.

\*\* Power through the hype to see and smell the truth as it slides down the ham door.

\*\*\*\*\*  
**WACOM SD-510 Cordless Digitizer**

*Reviewed by Robert Clancy*

*WACOM's thin, pressure sensitive digitizing tablet is a computer illustrators dream.*

When it comes to input devices Wacom (pronounced wah' cum) technology Corp. has the solution we have been looking for. Demonstrated at the November MacGraphics meeting, the Wacom tablet proved it can deliver everything it has promised.

The tablet, only .25-inch thick, weighing about two pounds, connects with a slim wire to its processor box that plugs into the Mac's modem port. The processor box is powered by household current, through a standard AC cord. Because your modem port is occupied by the processor, you will not be able to use any other devices with that port, unless you purchase an A/B switch box. I happened to have a switch box, which allows me to switch between the tablet and my modem, I was told by Wacom that a future release of this tablet will be able to connect to the ADB port.

One of the best features of this system is its cordless, batteryless, lightweight, pen-like stylus. For me, the stylus gave

me back my hand to draw with. In comparison, illustrating with a mouse is like trying to sign your name, with a crayon, while you are wearing boxing gloves! Some programs, such as Photoshop, Freehand 3.1 and Pixel Paint Pro 2.0 take advantage of the stylus' pressure information to vary brush thickness, color intensity, line width and more.

Like a mouse, the stylus also provides input to your Mac. It differs in that it has precise selection or drawing capabilities similar to a pen or pencil. Unlike a mouse, a digitizer can have a single absolute origin. The advantage is there is a direct correspondence between distances on the tablet and distances on the screen, so you can trace artwork on it. A mouse, on the other hand, creates a new origin every time it touches down. This difference took me only about 10-15 minutes to get used to.

The 6" x 9" tablet is a nice size and weight, I am able to place it in my lap and control the entire Mac with a pen stroke.

Overall, I enjoy using this product. Photo retouching is no longer a chore. This system allows me to draw in a natural, accurate and comfortable way. I recommend the Wacom tablet to any artist, who needs the superior control a mouse just can't offer.

For more information on this tablet and Wacom's complete line of digitizers call Wacom Technology Corporation at (800) 922-6613.

*Special thanks to Steve Smith, at Wacom, for his help in making this review possible.*

\*\*\*\*\*  
**Maxima 2.03**

*Reviewed by Robert Clancy*

Maxima, from Connectix Corp., is a versatile RAM disk and memory extension utility for use in both System 6 and System 7 for Macintosh systems with more than 8 megabytes of RAM. In system 6 Maxima extends addressable RAM from the traditional 8 megabyte limit to as much as 14 megabytes, and uses the remaining physical RAM to create a RAM disk. These same features are available in system 7 in 24 bit mode (when 32-bit addressing is not on). In 32-bit mode of System 7, Maxima creates a 32-bit compatible RAM disk with full memory protection.

Before I explain the benefits of Maxima I will have to explain what all this 24 and 32-bit addressing stuff is. 24-bit addressing refers to the memory limitation of older Mac (ie Mac II, Ix, Ilex or SE/30) which are not able to have more than 8 megabytes of physical RAM within them. The only way to go beyond the 8 meg barrier is to install Mode 32, also developed by Connectix Corp. (Mode 32 is now available for unrestricted use worldwide and will be available free at our next meeting.) Mode 32 allows switch from 24 to 32-bit addressing, enabling you to access up to one full gigabyte of virtual memory, or as much physical RAM as you can put in your Mac. Newer Macs such as the IIfx, LC and Quadras have 32-bit addressing built in, so you won't need Mode 32.

Maxima comes into play once you have installed more



than 8 megs of RAM. (I have 20 megabytes install on my Iix). With Maxima, you will be able to make a "hard disk" out of a portion of your physical RAM. Files placed into the RAM disk are loaded directly into the machines memory, thus speeding up screen re-draws, processing and saves. This is great for large documents, such as those created by Photoshop, Illustrator, or even Quark. In fact you could install you System Folder in RAM, which would increase all system calculations.

Working with Maxima's RAM disk is easy, it acts like any other mounted drive on the desk top. It survives Shutdowns, Restarts and even crashes. Maxima gave me a bit of trouble on its installation, but once I ironed those problems out it has performed flawlessly. The speed gained by this product is definitely noticeable. I saved a 1.5 megabyte Quark file that just blinked once and it was done and Photoshop files perform just as well!

For about \$45 and the investment of additional RAM, Maxima is an excellent system enhancement for anyone looking to speedup their system.

More information about Maxima is available from Connectix Corp. at (800) 950-5880. They also have a free Macintosh Memory guide which explains every thing you ever wanted to know about Mac Memory and more.

\*\*\*\*\*  
**A Gift to You from Adobe**

Adobe Systems is pleased to offer Apple computer owners a free copy of award-winning Adobe Type Manager (ATM) software.

With ATM, you'll gain access to thousands of PostScript Type 1 fonts for use on screen. Plus, ATM software can be used with all Macintosh-supported printers, including the ImageWriter, StyleWriter, LaserWriter, and PostScript typesetters.

As a special bonus, you'll also receive four free typefaces from the Adobe Garamond family. These Adobe Originals are a fresh treatment of some of the most popular typefaces in history.

Take advantage of this incredible offer today! Order the latest release of ATM—plus the Adobe Garamond typefaces—and pay just a \$7.50 shipping and handling charge (\$30 outside the USA and Canada). Together, these products normally retail for \$346!

U.S. and Canadian residents, call 1-800-521-1976 ext. 4400, or fax 1-303-792-2231. Outside the U.S. and Canada, call (303) 799-4000 ext. 4600.

Fax requests please include name, shipping address, daytime phone and credit card information. Please allow 6-8 weeks for delivery. Outside the U.S. and Canada, you may either take advantage of this \$30 offer for the English-language version of ATM shipped via courier.

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## Apple Extends PowerBook Line with New Color and Entry-Level Models

Contact: Jennifer O'Mahony Apple Computer, Inc. (408) 974-0643

Cupertino, California--June 7, 1993--Two new models, announced today, further expand Apple Computer, Inc.'s popular PowerBook series. The PowerBook 180c brings active matrix color to the top of the line while the PowerBook 145B lowers the entry-level price by 25 per cent. Both computers feature Apple's award-winning all-in-one design including an integrated track-ball and comfortable palm-rests.

"Since the introduction of the first PowerBook notebooks in October 1991, Apple has been relentless in extending the range of customer options," said Randy Battat, vice president of Portable Computing, "we've brought customers better performance, better screen technology, color and more aggressive pricing. With the PowerBook Duo line we've brought a new concept to market--combining the mobility of a notebook with the expansion capabilities of a desktop docking station.

Added Battat, "With more than \$1 billion of sales some might expect us to take a breather. But customers continue to expect more from their notebook computers--they want to be able to buy the PowerBook that corresponds to their work needs and suits their budget. By constantly refining our line we aim to provide just that. Today we've hit both those targets by adding color at the top of the line and bringing the entry-level price down significantly".

### PowerBook 180c--Leading-edge color

With its 256-color active matrix display the PowerBook 180c offers the highest quality color technology on the notebook market today. Images are sharply defined and colors are amazingly bright. Saturated colors stand out strongly. The 180c display also brings the advantage of a viewing angle that is noticeably wider than that offered by earlier-generation screens. Viewers close to the screen but not having a direct line of vision can read text and appreciate graphics. This will also be a distinct advantage for customers who wish to give presentations and share information in small groups.

Another feature particularly appealing to the presenter is the extended screen resolution. The new 640 x 480 format adds an extra 80 lines of resolution. And PowerBook users connecting their machines to large monitors now have the advantage of video-mirroring (having the same content displayed simultaneously on both screens) with assurance of complete parity between the content displayed on the monitor and the notebook. In addition dual display mode gives users the option of displaying one set of data/images on the PowerBook and a different set on the external display simultaneously. For example users copying information from one application to another can view both applications at the same time. With the color handling ability of the PowerBook 180c, based on built-in QuickDraw software, customers can feel confident that colors and images will

stay consistent between applications.

Powered by a Motorola 68030 processor running at 33MHz, performance from the PowerBook 180c is on a par with the PowerBook 180. The system ships with all the features standard at the top of the line—Apple SuperDrive, allowing the user to read floppy disks formatted in MS-DOS and OS/2 systems in addition to Macintosh computer disks, a full-size keyboard, video out, sound in and sound out. And the PowerBook 180c is the only active matrix color notebook on the market to offer built-in networking and built-in expansion which allows users to connect to as many as six external devices, such as scanners, hard drives and CD-ROM players, at one time. With average usage customers can expect 1-2 hours of battery life and can extend this with Apple's EverWatch battery saver technology.

The PowerBook 180c will be offered in three configurations 4/80, 4/160 and 4/160 with a built-in PowerBook Express Modem. The new 4/160 configuration offers more hard disk space a plus for users taking advantage of the powerful display to work with graphics. The 180c measures 9.3Dx 11.25W x 2.34H and weighs 7.1 lbs.

**PowerBook 145B--Aggressive entry-level pricing**

At \$1649 SRP (Manufacturer's Suggested Retail Price), the PowerBook 145B hits the market at a very aggressive price yet retains all the attributes that give PowerBooks their uniqueness. Performance remains as sharp as on the PowerBook 145 thanks to the same Motorola 68030 processor working at 25MHz.

"Customers who buy an entry-level machine certainly want value but are reluctant to make a lot of trade-offs," says Dave Roeschild, product line manager for Apple's Portable Computing division. "With the 145B Apple engineers created an entry-level model for the award-winning all-in-one line at a very attractive price yet customers are not losing any of the performance or features they valued in the 145. We see this as a great purchase for college students or some of Apple's current customers planning on buying a second Macintosh."

In fact, buying a PowerBook 145B today means that the customer purchases the speed and responsiveness offered by the PowerBook 170 for less than half its price on introduction at the top of the PowerBook line in October 1991. All of the features users now consider standard for PowerBooks are included—full-size keyboard, integrated trackball, adjustable leg rests and the highly-acclaimed palm rests. Weight and dimensions remain the same as on the PowerBook 145 and all models are equipped with a backlit Supertwist liquid crystal monochrome display and with Apple SuperDrive floppy drive that accommodates MS/DOS and OS/2 formats as well as Macintosh. Sound-in and sound-out ports are also standard and built-in ports allow users attach peripherals such as printers, CD-ROM drives and scanners. Users can expect 2-3 hours of battery life which can be extended using Apple's battery saver technology.

Three key refinements to the current 145 model enabled the portable computing group bring a more affordable model to market. One change is the RAM configuration—the 145B now comes standard with 4MB on the daughterboard. This allows for easier expansion—up to 8MB. System software (system 7.1) is now shipped pre-loaded on the hard disk and each system comes

equipped with back-up and restore programs that allow the user to back up either the entire hard disk or simply the system files. Sound in and out remain standard, but the microphone is now optional.

With today's announcement Apple continues to ensure award-winning PowerBook computers will suit a range of customer needs and budgets. The all-in-one line now provides a choice of five models—145B, 160, 165c, 180 and 180c. Offering the best of both worlds are the two models in PowerBook Duo line—210 and 230—coupled with either a DuoDock or a MiniDock, they bring their users the mobility of notebook computing with the advantages of a desktop base.

Both new models include a rechargeable nickel-cadmium battery, AC adapter, System 7.1 software, training software and complete learning and reference documentation. A one-year limited warranty is included in the price.

**Pricing and Distribution**

Both models will be available immediately through authorized Apple resellers. Pricing and availability may vary worldwide.

PowerBook Configurations	U.S. SRP
PowerBook 145B 4MB Hard Disk 40	\$1649
PowerBook 145B 4MB Hard Disk 80	\$1899
PowerBook 180c 4MB Hard Disk 80	\$4159
PowerBook 180c 4MB Hard Disk 160	\$4519
PowerBook 180c 4MB Hard Disk 160 w/Express Modem	\$4769

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Apple Press Releases PR Express Apple & Industry News News Break 6/7/93

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**Double Click Classifieds**

Student for Hire - Recent grad from Durham College seeks computer-related work. Areas of interest: administration, installations & repair. 435-3723.

1987 Plymouth Horizon - Expo edition. Automatic, burgundy red, gauge package. AM/FM radio. \$950 or best offer. Call (416) 666-8065

## About Double-Click

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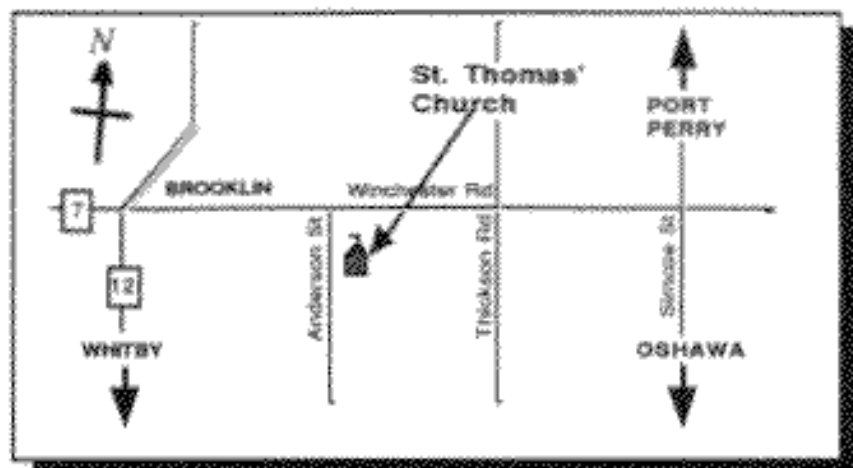
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### Typefaces:

Headers are set in Helvetica  
Body type is set in Times

## MaUse Meeting Location & Schedule



Members of the general public, guests of MaUse members, and all regular MaUse members are invited to attend any of MaUse's membership or Executive meetings. It is NOT necessary to bring your Macintosh with you...all that's required is an interest in Macintosh computing.

Listed at right is the schedule for 1992. Membership meetings are generally held at St. Thomas' Church in Brooklyn (see map above) starting at 7:30PM. Shareware disk sales begin at 7:00PM. Executive meeting locations vary...call ahead to confirm exact locations/times.

Month	Exec Mtg	Member Mtg
June	3rd	23rd
July	1st	26th
August	5th	25th
September	2nd	22nd
October	7th	27th
November	4th	24th
December	2nd	22nd
January	6th	26th
February	3rd	23rd
March	3rd	23rd
April	7th	27th
May	5th	25th

## Acknowledgements

MaUse is a member of MNS, the Macintosh News Service, which acts to distribute information/articles between Mac User Groups in North America. Various articles in Double-Click are provided courtesy of MNS and its Corporate sponsors.

SoftArc is this month's MNS Sponsor. The Executive of MaUse and Double-Click Editor thank SoftArc for providing this service. We encourage MaUse members to advocate the products/services of MNS Sponsors.

Each month's MNS disk becomes a part of our MaUse Public Domain software library and members are welcome to see Bruce Cameron for copies or information regarding the contents of these MNS disks.

# SoftArc

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