Power Mac G4 Essay, Research Paper

With

its Pentium-crushing speed and new design, the Power Mac G4 picks up where the

old Macintosh (G3) left off. Its enclosure is now highly polished silver and

graphite, yet it still offers easy access to every internal component through

its swing-open side door. With PowerPC G4 with Velocity Engine, the computer

speeds up to 450MHz, one megabyte of backside level-2 cache running at half the

processor speed, and a 100MHz system bus supporting up to

800-megabytes-per-second data throughput, the Power Mac G4 delivers high

performance. And when you?ve completed your projects, shooting those big files

across the network is a snap, because every new Power Mac G4 comes with

10/100BASE-T Ethernet built in.This means that when you buy it, it is ready to

go to get set up to your local cable internet provider. The secret of the G4?s

revolutionary performance is its aptly named Velocity Engine. It?s the heart

of a supercomputer miniaturized onto a sliver of silicon. The Velocity Engine

can process data in 128-bit chunks, instead of the smaller 32-bit or 64-bit

chunks used in traditional processors (it?s the 128-bit vector processing

technology used in scientific supercomputers?except that they have added 162

new instructions to speed up computations). In addition, it can perform four (in

some cases eight) 32-bit floating-point calculations in a single cycle, which is

two to four times faster than traditional processors. The new G4?s are proven

to be faster that pentium 3?s. Using six of Intel?s tests, the 450MHz G4

was, on average, more than two and a half times as fast as the 600MHz Pentium

III (2.65 times, to be exact). These benchmark advantages translate directly

into real-world advantages. For example, typical Photoshop tasks run 187% faster

on the Power Mac G4 as they do on the fastest PentiumIII-based PCs, with

specific Photoshop filters running up to four times faster. Compressing

QuickTime files is also much faster. Other Hardwear Monitor This is the ultimate

companion to the Power Mac G4: the Apple Cinema Display. Its 22-inch diagonal

screen makes this the largest LCD display ever brought to market, with a viewing

area identical to that of a 24-inch flat CRT display. This is state-of-the-art

technology, and supplies will naturally be limited.It?s sold exclusively

through the Apple Store, bundled with a 450MHz or faster Power Mac G4. But if

you?re fortunate enough to use one, your office view will never be the same

again. Its viewing quality, is a world apart: twice as bright and twice as sharp

as a CRT, with triple the contrast ratio and absolutely zero flicker. And its

colors remain true from almost any viewing angle. Like a movie theatre, the

Apple Cinema Display has a letterbox format (1600×1024 pixels), with room enough

to display an entire 11×17 image. And unlike most other displays, it receives

its data digitally from the computer, preserving the highest quality image.

Operating System Mac OS 9 Mac OS 9 is the ultimate sytem for anyone on the

Internet or anyone who wants to be. It is also very good for businesses. With

more than 50 powerful new features, Mac OS 9 offers a full range of capabilities

for new and advanced users. At work, there?s no better way to get the most of

your Macintosh computer and the Internet. What is comes with: Sherlock 2. In

addition to its smart disk and file searching, Sherlock 2 is your Internet

search detective and personal shopper. Look the Web for people, references,

Apple info and current news in a flash. Sherlock 2 also lets you shop and

compare prices. ColorSync 3. Included in Mac OS 9, ColorSync 3 manages color

across input, display and output. It features improved AppleScript support,

saveable workflow settings, powerful Calibration Assistant and enhanced control

for profiles. At www.apple.com, there is also acompreensive manual and tutorial

to teach you and your colleagues about all the uses and features of Mac OS 9

Softwear QuickTime 4 With a customer base of more than fifteen million Mac and

Windows users who downloaded the preview release, and a growing list of online

publishers?including, most recently, Fox News Online, Fox Sports Online and

The Weather Channel?QuickTime 4 is the hottest streaming technology on the

Internet. Some examples of how QuickTime is used in live programming and

on-demand programming on the webare are the BBC, Bloomberg, HBO, NPR and WGBH

Boston, and industry giants like Broderbund, Voyager, Cyan, Pixar, Lucasfilm,

Macromedia, Microsoft, Disney and CNN. All for one simple reason: QuickTime is

the standard for digital video and streaming media. Quicktime can be used to

communicate to distant colleagues and potential clients, and is a must for

businesses. AppleWorks Everything you need to create professional-quality

documents with ease and speed in one affordable package. AppleWorks provides

word processing, graphics and illustration, spreadsheet, charting/graphing,

presentations and database capabilitie as well as the ability to save your work

in HTML for publishing it on the web. Apple Share IP AppleShare IP software

enhances workgroup productivity with an integrated suite of network services.

Using a single administrative interface, you can quickly set up file, print,

mail and web servers for your business. Support for standard Internet protocols

makes AppleShare IP file, mail and web services available to authorized and

guest users via the Internet and your intranet. Hypercard Now more integrated

with QuickTime, HyperCard organizes information into easy-to-use

"stacks" of cards through which users can navigate and search for the

information they need. Simply by clicking on a button, they can view related

text, see a graphic, hear a sound, watch a QuickTime movie, or listen to text

spoken out loud.