

Laptops for Learning Update

*Board of Trustees Meeting
October 25, 2005*

1:1 Status Update

- *Fifth Grade Parent Meetings Tentatively Scheduled*
- *FAQ File Posted on Web Site*
- *Panel Presentation to Principals*
- *Sixth Grade Teacher Training Continuing*
- *UCI First Year Evaluation Posted*

UCI Evaluation Findings

- *88% of teachers agreed the laptop program should be continued*
- *82% of teachers recommended that other schools adopt similar laptop programs*

UCI Evaluation Findings

- *“...we witnessed students who were more engaged in the learning process than in the typical classroom.”*
- *“Laptops...provided much greater opportunity to individualize instruction....”*

UCI Evaluation Findings

- *“All three schools achieved important educational benefits, including better promotion of 21st century learning skills, greater student engagement..., greater quantity and quality of writing, [and] deeper and more complex learning....”*

UCI Evaluation Findings

- *“The district’s decision to expand the program, while continuing to evaluate the results, is merited.”*
- *“Parents, local businesses, community members, and school district officials are encouraged to work together to continue making the program a success.”*

Funding for Technology

- *Erate—Subsidies for services*
- *Competitive Grants—EETT*

Competitive Grants

- *Targeted at specific schools, populations or strategies*
- *One-time or short-term funding*
- *Can be highly competitive*

EETT Grant

- *Laptop carts, multimedia focus: cameras, projectors, servers, training, support personnel*
- *Three junior high schools*
- *Focused on specific content areas*
- *In final year of funding*
- *Applying for next round*

Funding for Technology

- *Erate—Subsidies for services*
- *Competitive Grants—EETT*
- *Foundations*

Foundations

- *Targeted at specific schools, populations or strategies*
- *One-time or short-term funding*
- *Phelps Foundation has helped with computer labs, mobile carts*

Funding for Technology

- *Erate—Subsidies for services*
- *Competitive Grants—EETT*
- *Foundations*
- *Categorical funds*

Categorical Funds

- *State or federal funds*
- *Targeted at specific subgroups or populations of students*
- *Use must typically be supplemental*
- *Funds are generally on-going*
- *Most funds targeted at schools with high poverty counts*

Funding for Technology

- *Erate—Subsidies for services*
- *Competitive Grants—EETT*
- *Foundations*
- *Categorical funds*

Funding for 1:1

- *Need on-going revenue stream*
- *Competitive grants don't provide this*
- *Foundations typically don't provide this*
- *Categorical funds do assist at specific sites*

Funding for 1:1

- *Potential revenue streams:*
 - *Business/corporate donations*
 - *Community fund-raising*
 - *Parent contributions for those choosing to participate*

How Do We Compare?

- *Expenditures per Student (Source: NEA)*
 - *Maine—\$10,961*
 - *Virginia—\$9,401*
 - *California—\$7,860*
 - *Fullerton School District—\$6,619*

Why Apple?



Long District Standard

- *First purchased Apple IIs in 1979*
- *By 1982, several hundred thousand dollars in personal computers acquired*
- *Repair center created in 1982*
- *Continued to evaluate platform standard*



It's Not about the Platform

- *We teach computing concepts*
- *Applications and operating systems change constantly*
- *Example: Windows Vista, Office 12 coming in 2006*



Longevity

- *Our experience is that Apple products last*
- *Our web server: 9 years, 24/7*
- *Even the computer from the TV series “Lost” that is saving the world from something is an Apple II!*



Unix Subsystem

- *Mac OS X is built on Unix*
- *30 years of Unix development*
 - *Stable, secure, built for network environment*
- *Impervious to worms, viruses so far*
- *Can automate workflows in Unix*
- *Able to use much open source software from the Unix community*

Unix Subsystem

- *Back end infrastructure less expensive than Windows solution*
 - *File server, web proxy, DNS/DHCP services*
 - *Windows solution (large school): \$23,276*
 - *Windows solution (small school): \$11,276*
 - *Open source+Macintosh: \$5,978*

Apple Support for Education

- *History*
 - *1980—Kids Can't Wait*
 - *1985-98—Apple Classrooms of Tomorrow (ACOT)*
 - *1998-present—Apple Learning Interchange (ALI)*
 - *1999—First laptop with integrated wireless: iBook*

Costs for Like Systems

- *Claim: Apple Computers Cost More*
 - *Not when comparing like systems*
 - *Equivalent software and hardware*
 - *www.systemshootouts.org*

\$1,000 Laptop Shootout Page 1

Mac vs. PC System Shootouts by Charles Gaba

Desktop Shootouts (10/22/05) Laptop Shootouts (10/22/05) Educational Shootouts (10/23/05) Special Shootouts (10/22/05)

[Home](#) [Shootouts FAQ](#) [Processor Speed Equivalency](#) [Discussion Board](#) [Macintosh Sales](#) [iPod Sales](#) [iTMS Sales](#)

Read the [System Shootout FAQ](#) before proceeding! • All images and logos are copyright (c) 2004 the respective companies.

Ads by Google



Celeron Laptops
\$599 Dell Home Notebook
after instant savings.
Details here
www.dell-me.com

Free Apple Store Coupons
Get Free Coupons for
The Apple Store at
Deals4your.com\$aff)
deals4your.com

Apple iBook Headquarters
Get \$5.99 RAM rebate,
free shipping and more.
We're the Mac Experts!
www.powernmax.com

Free Laptops - Choose One
Participate Now and
Receive a Free Laptop
Computer of Your
Choice!
FreeLaptop.OnlineRewardCenter.c



Notebook Memory - Crucial
Memory Advisor, Free
Shipping, Lifetime
warranty, Crucial Quality.
Crucial.com

| \$1,000 Laptop System Shootout | | Date Configured: 7/26/05 Must Include: 12.1"+ Display, CD-RW/DVD-ROM | |
|---|---|---|--|
| Best of Field <i>(in my opinion)</i> |  |  | |
| | Apple 12" iBook | Dell Inspiron 700m | |
| Design / Ergonomics | | | |
| Dimensions: | 132 cubic in.; 11.2" x 9.1" x 1.35" | 149 cubic in.; 11.7" x 8.5" x 1.5" | |
| Weight: <i>(all bays filled)</i> | 4.9 lbs | 4.1 lbs | |
| Battery Life: | "up to" 6.0 hrs. | "up to" 2.5 hrs. | |
| Other: | Scrolling trackpad; Sudden Motion Sensor | -- | |
| Hardware: Processor / RAM | | | |
| Processor: <i>(Notes)</i> | 1.33 GHz PowerPC G4 ≈ 1.7 GHz Pentium 4 | 1.6 GHz Pentium M 725 ≈ 2.3 GHz Pentium 4 | |
| Level 2 Cache: | 512K | 2.0 MB | |
| RAM Type: | 333 MHz DDR-SDRAM PC2700 | 333 MHz DDR-SDRAM PC2700 | |
| Front Side Bus: | 133 MHz | 400 MHz | |
| RAM Amount: | 512 MB (1 DIMM) | 256 MB (1 DIMM) | |
| Max. RAM: | 1.5 GB (1 embedded + 1 open slot) | 2.0 GB (1 embedded + 1 open slot) | |
| Hardware: Storage | | | |
| Hard Drive Capacity: | 40 GB | 40 GB | |
| Hard Drive Type: | Ultra ATA/100 | Ultra ATA 100 | |
| Hard Drive Speed: | 4200 RPM | 4200 RPM | |
| CD-ROM: | 24x CD | 24x CD | |
| CD-RW: | 24x16x CD-RW | 24x24x CD-RW | |
| DVD-ROM: | 8x DVD-ROM | 8x DVD-ROM | |
| DVD-/+RW: | -- | -- | |
| Floppy/Other Drive: | -- | -- | |
| Hardware: Internal Expansion | | | |
| PCMCIA Slot? | -- | Yes | |
| Bay Type: | Fixed | Modular | |
| Hardware: External Expansion / Peripherals | | | |
| USB Ports: | 2 USB 2.0 ports | 2 USB 2.0 ports | |
| FireWire Ports: | 1 port @ 400 Mbps | 1 port @ 400 Mbps | |
| Legacy Ports: | -- | -- | |
| Hardware: Graphics / Video / Audio | | | |
| Video Card: | ATI Mobility Radeon 9550 | Intel Integrated 3D AGP | |
| Video RAM: | 32 MB DDR | "up to" 64 MB (shared) | |
| Dual-Disp. Supp: | Mirroring only | Mirroring only | |
| VGA Out: | Yes | Yes | |
| DVI Out: | -- | -- | |
| S-Video Out: | <i>(optional adapter)</i> | Yes | |
| RCA Out: | <i>(optional adapter)</i> | Yes | |
| Display: | 12.1" TFT XGA | widescreen 12.1" TFT XGA | |

\$1,000 Laptop Shootout Page 2

| | | |
|---|--|--|
| Native Res: | 1024x768 (0.8 Mpx) | 1280x800 (1.0 Mpx) |
| Audio In: | Built-in microphone; USB mic support | Line-in port; USB mic support |
| Audio Out: | Speaker/HP jack; USB speaker support | Speaker/HP jack; USB speaker support |
| Stereo Speakers: | Yes | Yes |
| Hardware: Networking | | |
| Ethernet: | 10/100 Ethernet | 10/100 Ethernet |
| 56k Modem: | 56k v.92 fax/modem | 56k v.92 fax/modem |
| .Wi-Fi Card: | integrated 802.11g (54 Mbps) Airport Extreme card | integrated 802.11g (54 Mbps) Wi-Fi card |
| Bluetooth Module? | integrated Bluetooth 2.0 + EDR | optional (USB) |
| Hardware: Printers, Scanners, etc. | | |
| Hardware Extras | Canon PIXMA IP3000 Photo Printer (free after rebate) | Dell 720 Color Printer |
| Software: Operating Systems / Compatibility | | |
| Included OS: | Mac OS X 10.4 Tiger; Mac OS 9.2 Classic; BSD Unix; X11 Window System | Windows XP Home Edition |
| Windows Support: | DOS/98/ME/2000/XP (via Virtual PC) | DOS/95/98/ME/2000/NT/XP (Native) |
| Mac Support: | Mac OS 8 apps; OS 9 (via Classic); OS X (Native) | Mac OS 8 only (via emulation) |
| Linux/Unix Support: | Various flavors (Native) | |
| Realtime Metadata Search/Organization: | Spotlight (system-wide) (includes Smart Folders, Content Search, etc) | (Google desktop search - free download) |
| Modular Desktop Utilities: | Dashboard (system-wide) | (Konfabulator available - free download) |
| Task Scripting: | Automator/AppleScript (system-wide) | Windows Script Host |
| Save-as PDF: | Native (any file) | (via WordPerfect package) |
| Faxing: | System-wide; Send/Receive logs/archives included | (Fax Service not installed by default) |
| Zero-Config Networking: | Bonjour (system-wide) | (Bonjour for Windows available - free download) |
| Handwriting Recognition: | Inkwell (system-wide) | -- |
| Voice/Speech Recog.: | Built-in (system-wide); Speakable Items, etc. | (limited to certain non-core apps) |
| Web Serving: | Apache w/Perl, Python & PHP included | (requires XP Pro) |
| Data Backup Utility: | (iBackup, PsyncX, etc. available as free download) | Included |
| Developer Tools: | Xcode, Script Editor, etc. | (free download of compiler/linker/diff tools) |
| File Compression: | System-wide Zip compression | System-wide Zip compression |
| File Encryption: | FileVault encryption | (requires XP Pro) |
| Software: Apps / Utilities (Included w/system) | | |
| Word Processor | AppleWorks 6.2 (Word compatible) (OpenOffice available - free download) | WordPerfect (Word compatible) (OpenOffice available - free download) |
| Spreadsheet: | AppleWorks 6.2 (Excel compatible) (OpenOffice available - free download) | (OpenOffice available - free download) |
| Presentation: | AppleWorks 6.2 (OpenOffice available - free download) | (OpenOffice available - free download) |
| Database: | AppleWorks 6.2 | -- |
| Drawing/Painting: | AppleWorks 6.2 | -- |
| Page Layout/Publishing: | -- | -- |
| Font Management: | FontBook 2.0 | -- |
| Projects/Planning: | -- | -- |
| Web Browser | Safari RSS 2.0 (Firefox, Mozilla, etc. avail. - free download) | Internet Explorer 6 (Firefox, Mozilla, etc. avail. - free download) |

\$1,000 Laptop Shootout Page 3

| | | |
|--|---|--|
| Image/PDF Viewer: | Preview 3.0 | Image Viewer/Acrobat Reader 6.0 |
| E-Mail/Address Book: | OS X Mail / Address Book | Outlook Express |
| Calendar Program: | iCal 2.0 | -- |
| Data Synchronization: | iSync 2.0 | -- |
| System Data Transfer: | System Migration Assistant | Settings Transfer Wizard |
| Chat/AV Conferencing: | iChat AV 3.0 <i>(others avail. as free downloads: ICQ, AOL IM, etc..)</i> | Windows Messenger <i>(others avail. as free downloads: ICQ, AOL IM, etc..)</i> |
| Media Players: | Quicktime 7.0; DVD Player <i>(WMP & RealPlayer avail - free downloads)</i> | WMP 9; RealOne Player 9; DVD Player <i>(QuickTime 6.5 avail. as free download)</i> |
| Financial: | Quicken 2005 Deluxe | -- |
| Reference: | World Book OS X 2005 Edition Dictionary/Thesaurus; Sherlock 3.0 | <i>(assorted free online tools)</i> |
| Digital Photography: | iPhoto 5.0; Image Capture | Image Acquisition; <i>PaintShop Trial; Photo Album Starter Ed.</i> |
| Digital Video Editing: | iMovie HD 5.0 | MSFT MovieMaker 2 |
| CD Burning/Music: | iTunes 4.9; Disc Burner | XP Disk Burning; MusicMatch 7.0; Sonic RecordNow <i>(iTunes 4.9 avail. - free download)</i> |
| Audio Engineering: | GarageBand 2.0 | -- |
| DVD Burning/Authoring: | iDVD 5.0; Disk Burner | XP Disk Burning |
| Games Included: | Chess; Nanosaur 2; Marble Blast Gold | Mine Sweeper; asstd. MSFT games |
| Total Software Titles Available: | <i>"fewer available" (actual numbers unclear)</i> | "more available" (actual numbers unclear) |
| Additional Software: | Asstd. system software | |
| Services, Warranty, Durability, etc. | | |
| Free Services: | 1 month Earthlink; 2 month .Mac trial | 6 months Earthlink |
| Viruses/Trojans/Worms: | None known which affect Mac OS X. | Between 1,200 - 70,000 known viruses (depending on your source) |
| Security Alerts: | Source: U.S. Dept. of Energy 7 security alerts total for Mac OS X | 75 notable security alerts released for Windows XP or Internet Explorer 6 (+ appx. 50 for major MSFT applications) |
| Firewall: | Built-in, configurable | |
| Warranty: | 1 yr. ltd./mail-in; 90 days phone | 1 yr. ltd./at-home; 1 yr. phone |
| Customer Service: | Scored 74% by Consumer Reports (Highest Rating) | Scored 62% by Consumer Reports |
| Price / Shipping | | |
| Subtotal: | Base Laptop Price: \$999 + Printer: \$99 | Base Laptop Price: \$959 + 1 yr. warranty upgrade: \$23 |
| - Rebates if any: | - \$99 printer rebate | -- |
| + Ground Shipping: | n/c | + \$25 handling fee |
| Total Price as configured: <i>(tax not included)</i> | \$999 | \$1,007 |
| |  |  |
| Got a beef with any of this? A helpful suggestion? Join the Discussions! | | |

“Every mainstream consumer doing typical tasks should consider the Mac. Its operating system, called Tiger, is better and much more secure than Windows XP, and already contains most of the key features promised for Vista.”

*Walter S. Mossberg — Wall Street Journal
October 13, 2005*

“Want to see what the future of personal computing looks like? Don't wait for Microsoft to show you; go out and get yourself a copy of Apple's latest operating system release, OS X Tiger. It's that good.”

*Michael Gartenberg — ComputerWorld
May 2, 2005*