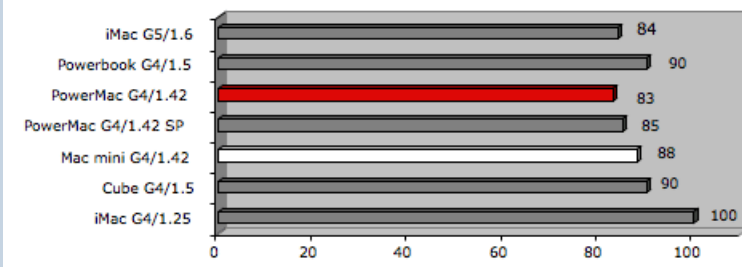# The new Mac mini

Small is beautiful.

CPU Intensive tests: Mac mini and "siblings"
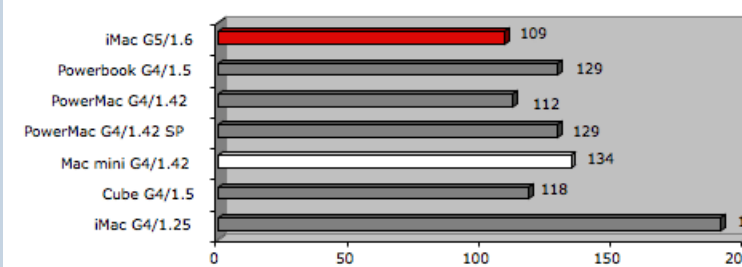
iMovie - Render Soft Focus
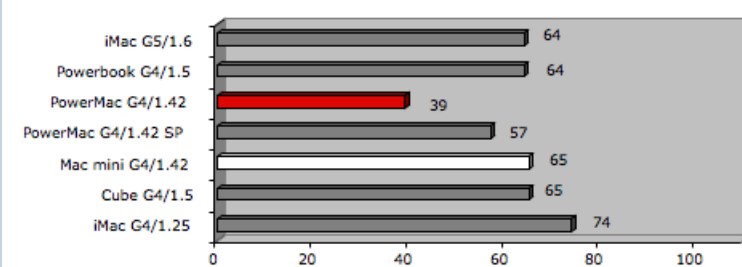Time in Seconds - **SHORTER** bar means faster

iMac G5/1.6	84
Powerbook G4/1.5	90
PowerMac G4/1.42	83
PowerMac G4/1.42 SP	85
Mac mini G4/1.42	88
Cube G4/1.5	90
iMac G4/1.25	100

iTunes - Convert MP3 to AAC
Time in Seconds - **SHORTER** bar means faster

iMac G5/1.6	109
Powerbook G4/1.5	129
PowerMac G4/1.42	112
PowerMac G4/1.42 SP	129
Mac mini G4/1.42	134
Cube G4/1.5	118
iMac G4/1.25	191

Photoshop CS - MP aware
Time in Seconds - **SHORTER** bar means faster

iMac G5/1.6	64
Powerbook G4/1.5	64
PowerMac G4/1.42	39
PowerMac G4/1.42 SP	57
Mac mini G4/1.42	65
Cube G4/1.5	65
iMac G4/1.25	74

Photoshop CS - non-MP aware
Time in Seconds - **SHORTER** bar means faster

iMac G5/1.6	84
Powerbook G4/1.5	81
PowerMac G4/1.42	73
PowerMac G4/1.42 SP	77
Mac mini G4/1.42	81
Cube G4/1.5	80
iMac G4/1.25	100
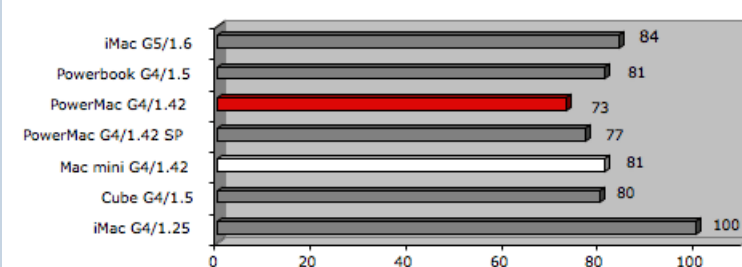
FileMaker Pro 7 - 12 actions
Time in Seconds - **SHORTER** bar means faster

iMac G5/1.6	207
Powerbook G4/1.5	217
PowerMac G4/1.42	253
PowerMac G4/1.42 SP	258
Mac mini G4/1.42	223
Cube G4/1.5	196
iMac G4/1.25	328
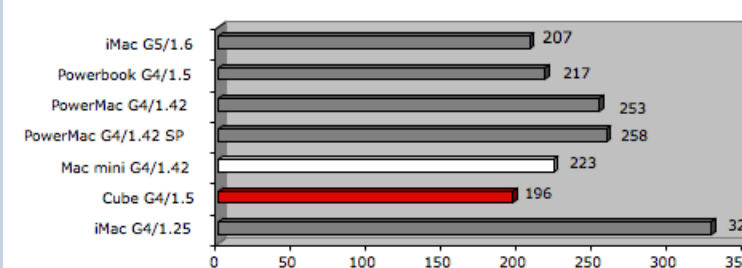
Graph legend

Graph Notation	Processor	L2, L3 Cache	Memory Config	Bus Frequency	Graphics Processor	Optional Graphics	Hard Drive used
iMac G5/1.6	G5/1.6GHz (PPC 970fx)	512K L2	1GB 400MHz (two 512M)	533MHz	GeForceMX 5200 Ultra	n/a	7200rpm 80GB Seagate ST380013AS
PowerBook G4/1.5	G4/1.5GHz (PPC 7447A)	512K L2	1GB 333MHz	167MHz	Mobility Radeon 9700	n/a	5400rpm 80GB Toshiba MK8026GAX
PowerMac G4/1.42	Dual G4/1.42GHz (PPC 7455)	256K L2 2MB L3	1GB 333MHz	167MHz	Radeon 9000 Pro	Radeon 9700 Pro	7200rpm 120GB WD1200JB
PowerMac G4/1.42 SP	"Single" G4/1.42GHz (PPC 7455)	256K L2 1MB L3	1GB 333MHz	167MHz	Radeon 9000 Pro	Radeon 9700 Pro	7200rpm 120GB WD1200JB
Mac mini G4/1.42	G4/1.42GHz	512K L2	1GB 333MHz	167MHz	Radeon 9200	n/a	7200rpm 60GB Hitachi 7K60
Cube G4/1.5	G4/1.5GHz (PPC 7455)	256K L2 2MB L3	1GB 125MHz	100MHz	Rage 128 Pro	GeForce3	7200rpm 160GB Maxtor DM9
iMac G4/1.25	G4/1.25GHz (PPC 7455)	256K L2	1GB 333MHz	167MHz	GeForceMX 5200 Ultra	n/a	7200rpm 80GB Seagate ST380013A

Live the digital life in stylish simplicity — up to four times faster. Just 6.5 inches square and 2 inches small, Mac mini lets you have more fun with your music, photos and movies, more quickly and more easily. Enjoy them up close or far away with the included Apple Remote. The most affordable way to Intel Core, iLife '06, and Front Row starts at $599.

Power has never been this economical
Mac mini makes it easy and affordable to work with digital photos, movies, music, and the web. And now it all happens with the blazing speed of the Intel Core, in either Solo or Duo configurations. Choose the Solo for a low-cost entry to iLife '06. Or select the Duo model for unprecedented power in such a small package — up to four times faster than previously. Coupled with an all new architecture and the world's most advanced operating system, Mac OS X, Mac mini runs all your modern and innovative software, speedily.

Your digital life starts here
Mac mini comes with iLife '06, a suite of easy-to-use applications that make the spectacular part of your everyday life. Enhance, organize and share your photos via iPhoto. Create calendars, books, and cards. Make an epic starring your kid in iMovie. Turn your photo and movie creations into professional DVDs with iDVD. Create original music in GarageBand, even if you can't carry a tune. Make podcasts and blogs. Then publish them online via .Mac and the all-new iWeb.2 You'll be amazed at how quickly, easily, and beautifully you can share your digital life.

Now showing
The full-screen Front Row media experience — with its intuitive menus, large text and brilliant graphics — lets you browse the music, photos, and videos on your Mac mini as easily as you browse music on your iPod. The included Apple Remote lets you enjoy your media from anywhere in the room from your desk chair to favorite sofa. Front Row and Mac mini can even play music, photos, and videos saved on other computers in the house,thanks to Bonjour instant networking.3 So gather your friends and dazzle them with a slideshow of your vacation pics, a home movie, your latest playlist, or a DVD.

More Mac per square inch
Inside its petite 2-inch tall, 6.5-inch square anodized aluminum enclosure, Mac mini houses that fast Intel Core processor, a 60 or 80GB hard drive, slot-loading Combo or SuperDrive, as well as built-in wireless — all whisper-quiet. This modular design lets you upgrade your current system to the elegance, simplicity and reliability of Macintosh without a lot of extra expense. BYODKM: Bring your own monitor, keyboard and mouse (or buy new ones). Either way you'll be up and running in minutes.

Mac mini also gives you plenty of room to grow, with more expansion options than previous models. Simply connect your digital devices, such as cameras, iPod, printer, camcorder or keyboard to the Mac mini over USB 2.0 or FireWire. Share files around your house at blazing speeds with built-in 10/100/1000 BASE-T Ethernet. Enjoy high quality sound on almost any speaker system with double-duty analog/digital audio. Record digital and analog sources through the line in, perfect for your latest podcast in GarageBand. Mac mini gives you built-in amenities you need to enjoy the digital lifestyle.

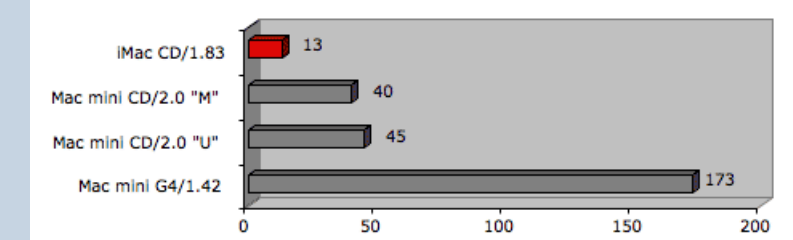## CPU Intensive tests: Intel Mac mini Core Duo versus PPC Mac mini

Cinebench - CPU Render
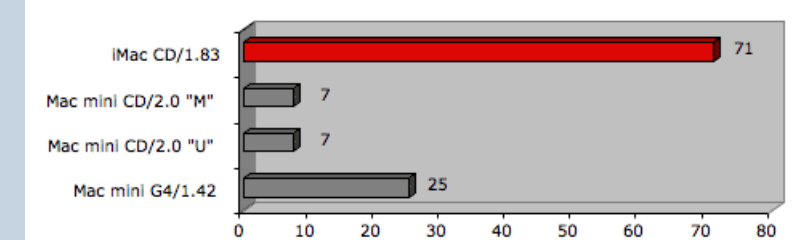CB rating - **LONGER** bar means faster

iMac CD/1.83	554
Mac mini CD/2.0 "M"	499
Mac mini CD/2.0 "U"	507
Mac mini G4/1.42	131
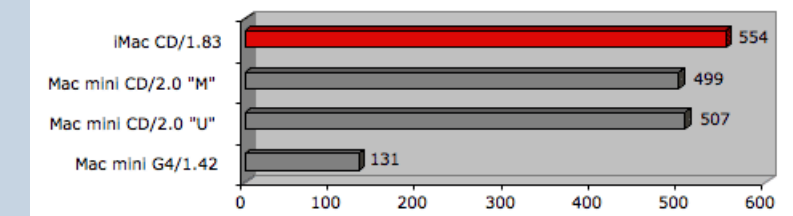
iMaginator - Core Image Test
time in seconds - **SHORTER** bar means faster

iMac CD/1.83	13
Mac mini CD/2.0 "M"	40
Mac mini CD/2.0 "U"	45
Mac mini G4/1.42	173

UT2004 - BOF Botmatch (10x7)
frames per second - **LONGER** bar means faster

iMac CD/1.83	71
Mac mini CD/2.0 "M"	7
Mac mini CD/2.0 "U"	7
Mac mini G4/1.42	25

Doom 3 - 1024x768 Medium
frames per second - **LONGER** bar means faster

iMac CD/1.83	43
Mac mini CD/2.0 "M"	13
Mac mini CD/2.0 "U"	11
Mac mini G4/1.42	13
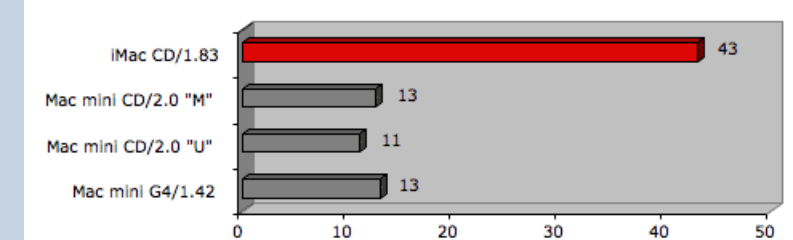
Quake 3 - 1024x768 Maximum
frames per second - **LONGER** bar means faster

Mac mini CD/2.0 "M"	86
Mac mini CD/2.0 "U"	57
Mac mini G4/1.42	57
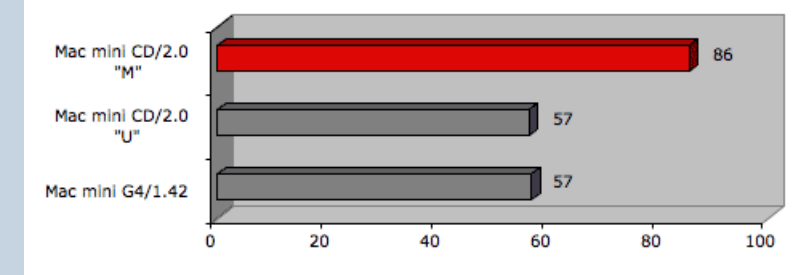
Graph legend

Graph Notation	Processor	Memory Config	Graphics Adapter
iMac CD/1.83	1.83GHz Core Duo	2GB of 667MHz	Radeon 1600 GPU with 128MB VRAM
Mac mini CD/2.0 "M"	1.66GHz Core Duo	matched pair of 1GB 667MHz	Intel GMA950 GPU
Mac mini CD/2.0 "U"	1.66GHz Core Duo	UNmatched pair of 667MHz (1GB + 256MB)	Intel GMA950 GPU
Mac mini G4/1.42	1.42GHz G4	1GB of 333MHz	Radeon 9200 GPU with 32MB of VRAM

PERFORMANCE SUMMARY

The Mac mini performed better than the old PPC mini in the two CPU crunch tests. It would have matched the times of the iMac Core Duo if it was running at the same clock speed.

In the Core Image test, it bested the old mini but lost to the iMac Core Duo due to the general weakness of the GMA950 graphics processor. In two of the 3D Game tests, it actually lost to the PPC mini. Though there's no speed test for HD 1080p playback, it does handle that just fine.

The Intel mini seemed only slightly affected by unmatched memory pairs until we ran Quake 3. In that test, matching memory was 51% faster. We recommend matching memory of either two 512MB modules or two 1GB modules. Just booting up the mini and doing nothing else consumes 270MB, so two 256MB modules just doesn't cut it.