


Client:	Independent Benchmark Project
Document:	Benchmark Report
Photoshop CS3 Performance Benchmarks (Macintosh)	
 Pfeiffer Consulting 01001011	


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About the Benchmarks

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About the Benchmark Project

Aim of the benchmark project

This benchmark project was defined to measure the performance of Photoshop CS3 running on a variety of Macintosh models, ranging from the **Power Mac G4** released in January 2002 to the **8-core Mac Pro** introduced in early 2007.

The benchmark project coincides with the release of the Adobe Creative Suite 3, the first release of Adobe's key applications that natively supports the Intel-based Macintosh models that have been available for over a year.

The aim of the project was therefore to document how Photoshop performs on the latest Intel-based Macintosh models, particularly when compared with previous high-profile releases of the Macintosh platform, such as the Power Mac G5 Quad.

Benchmarks: Overview

The benchmarks conducted for this project fell into three distinct groups: **Basic Tests**, that measure aspects such as application launch and opening and saving files, **Standard Benchmarks** that focus on key functions performed on files of varying sizes, and benchmarks of **Expert Options** that are particularly time consuming.

Technical Details

Hardware: Details

- **Configuration**
 - All benchmarks were conducted on a **standard configuration** workstations completely re-initialized for the benchmarks.
- **Memory**
 - All computers were equipped with **4GB of RAM** unless only lower memory configurations were supported by the hardware.
 - On systems that supported less than 4GB of RAM, **the highest supported amount of RAM** was installed.

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- **Computer models tested**

- Dual 1.0GHz **Power Mac G4** (Maximum RAM: 1.5GB)
- Dual 1.8GHz **Power Mac G5**
- 2.5GHz **Power Mac G5 Quad**
- 2.0GHz **iMac Core Duo** (Maximum RAM: 2GB)
- 3.0GHz **Mac Pro** (4-core Xeon)
- 3.0GHz **Mac Pro** (8-core Xeon)

- **System software and configuration**

- The benchmark systems were completely re-initialized prior to the benchmarks, using **a standard installation of Mac OS X Tiger 10.4.9.**
- No external hard drives or other peripherals were connected during benchmarks.
- System functions accessing the network were disabled.

- **Application software**

The benchmarks were conducted using **a default installation of the Adobe Creative Suite 3.**

Default settings were used in Photoshop for memory allocation and other settings; after each operation, **the undo buffer was purged.**

Benchmarks Details

Benchmark Methodology


- **Benchmark Execution**

- Benchmarks were executed **in exactly the same order.**
- **Each individual performance measure was conducted once;** after each complete series of benchmarks, the computer was restarted.
- **Three complete sets of benchmarks were conducted** in this fashion; the figures published in this report are **the average of the three individual measures** recorded for each test.

Operations covered by the benchmarks

- **Basic Benchmarks**

- Application launch
- Application re-launch
- Open 300MB Tiff file
- Save 300MB Tiff file

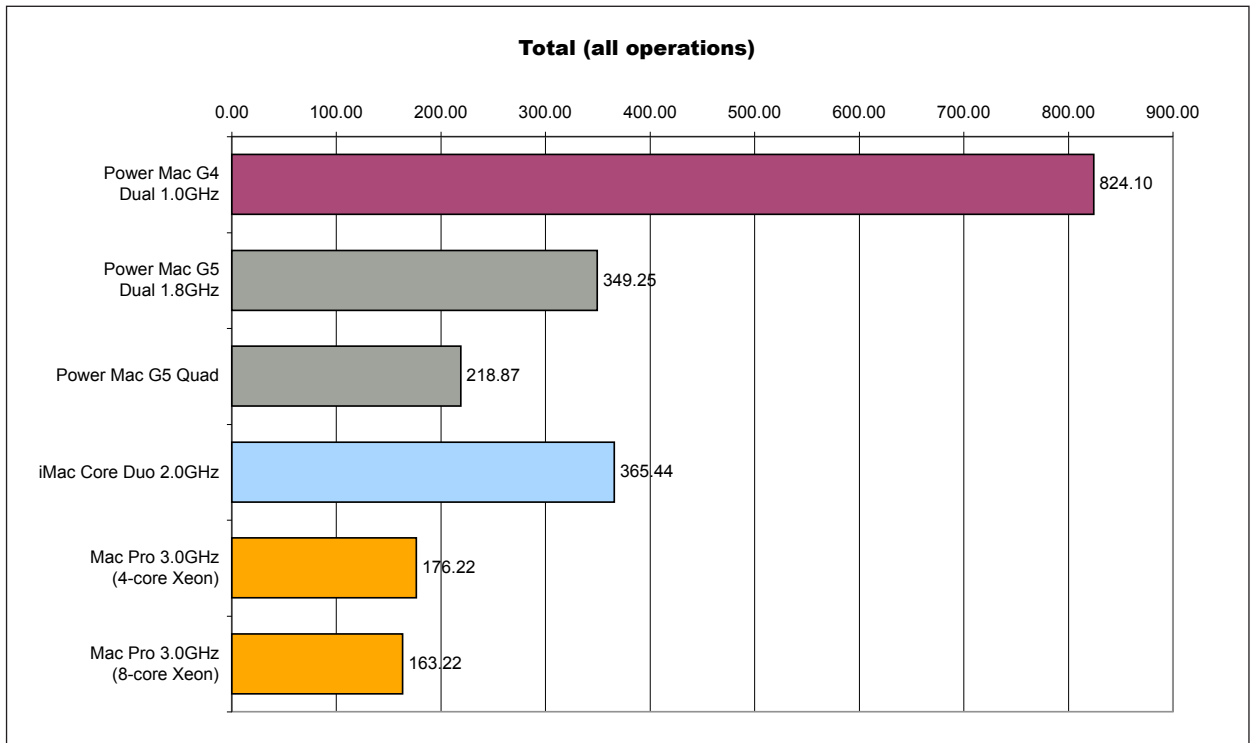
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- **Standard Performance Benchmarks**
(performed individually on 100MB, 300MB and 500MB files)
 - Gaussian Blur
 - Unsharp Masking
 - CMYK conversion
 - Resample image (95%)
 - Rotate image (3°)
- **Expert options**
 - Batch-convert 10 Raw images to DNG format using Camera Raw
 - Batch-open 10 Raw images in Photoshop
 - Open 300MB multi-layered Photoshop file
 - Save 300MB multi-layered Photoshop file
 - Rotate 300MB multi-layered Photoshop file (3°)

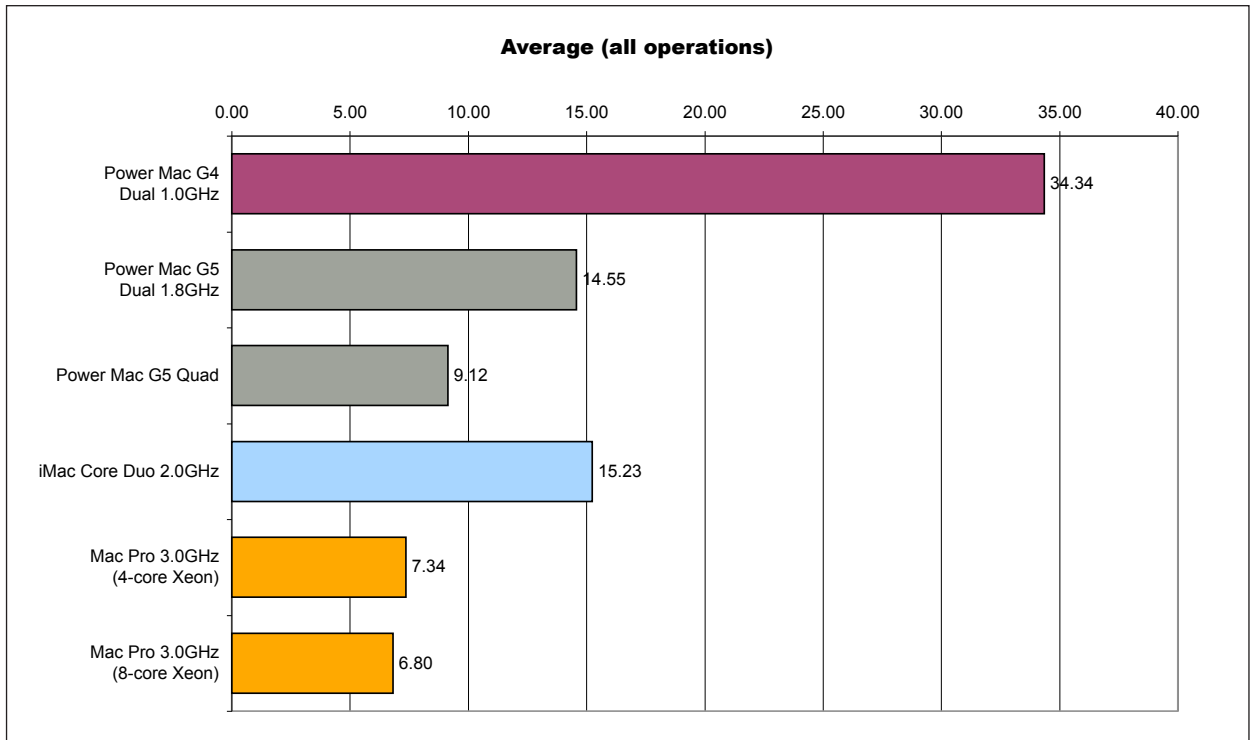
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Key Results

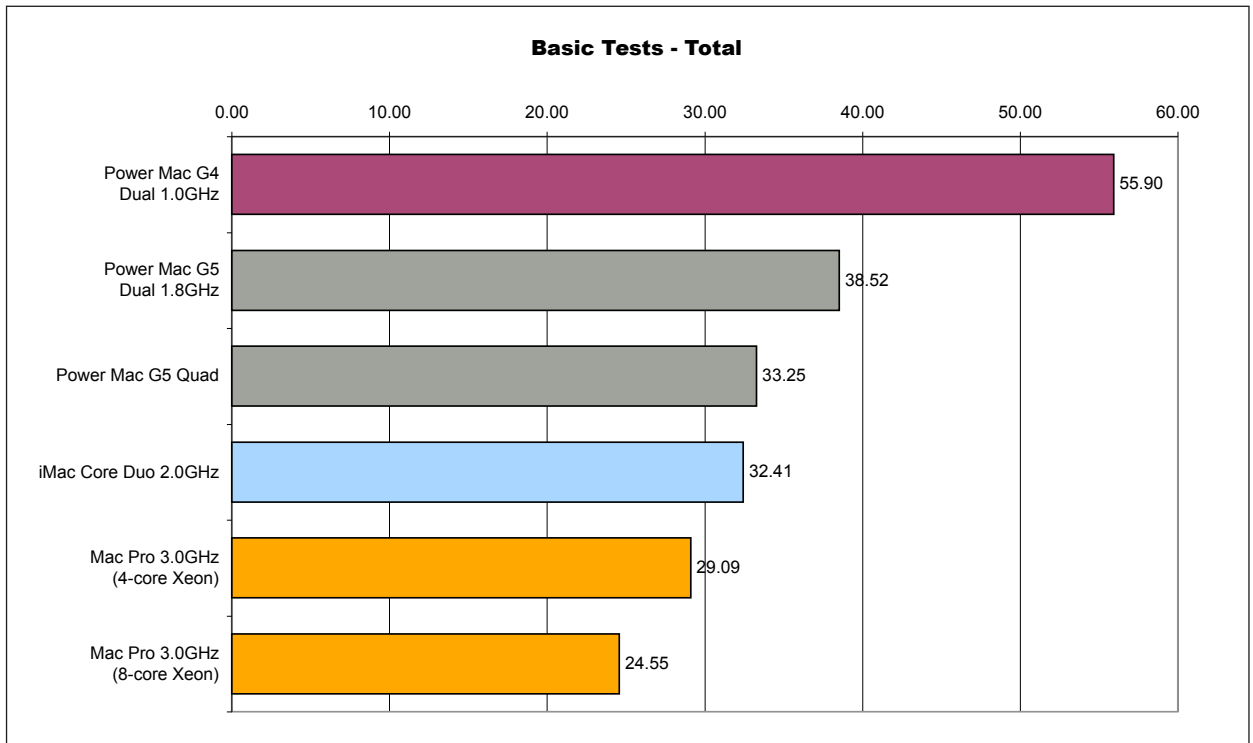


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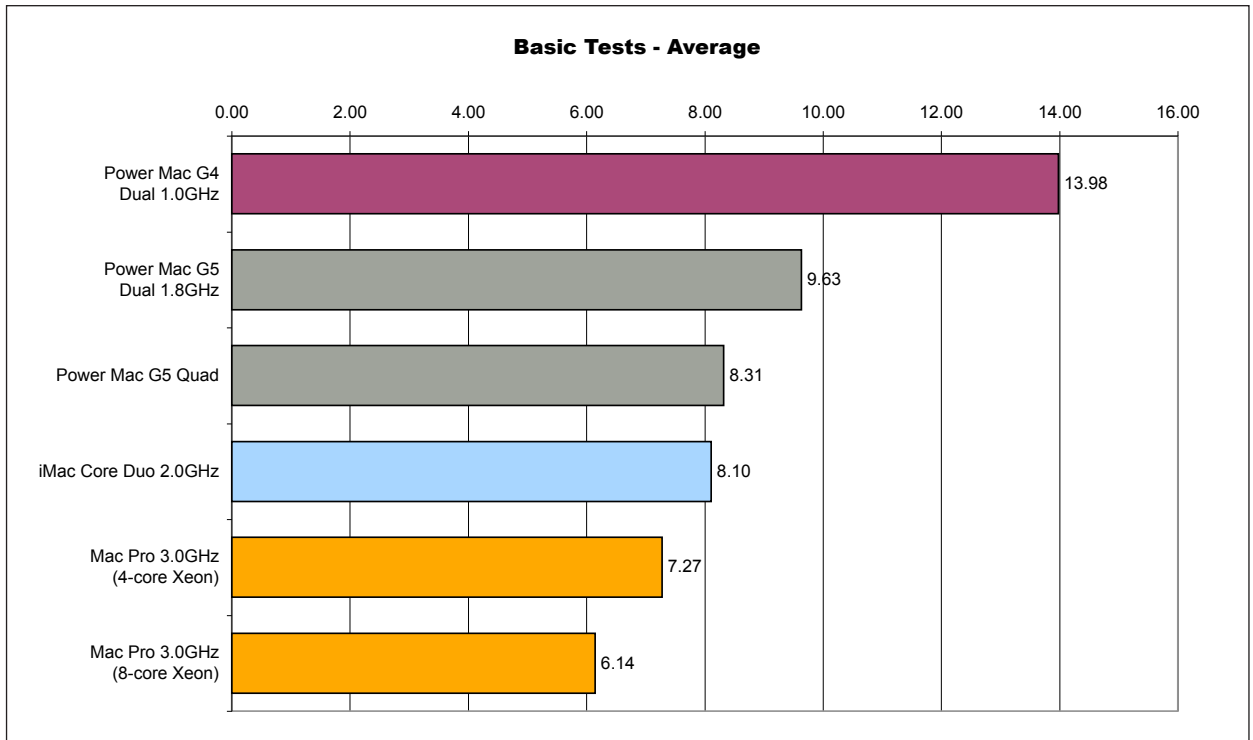


Time scale in seconds. Shorter is better.

Key Results : Overall Results

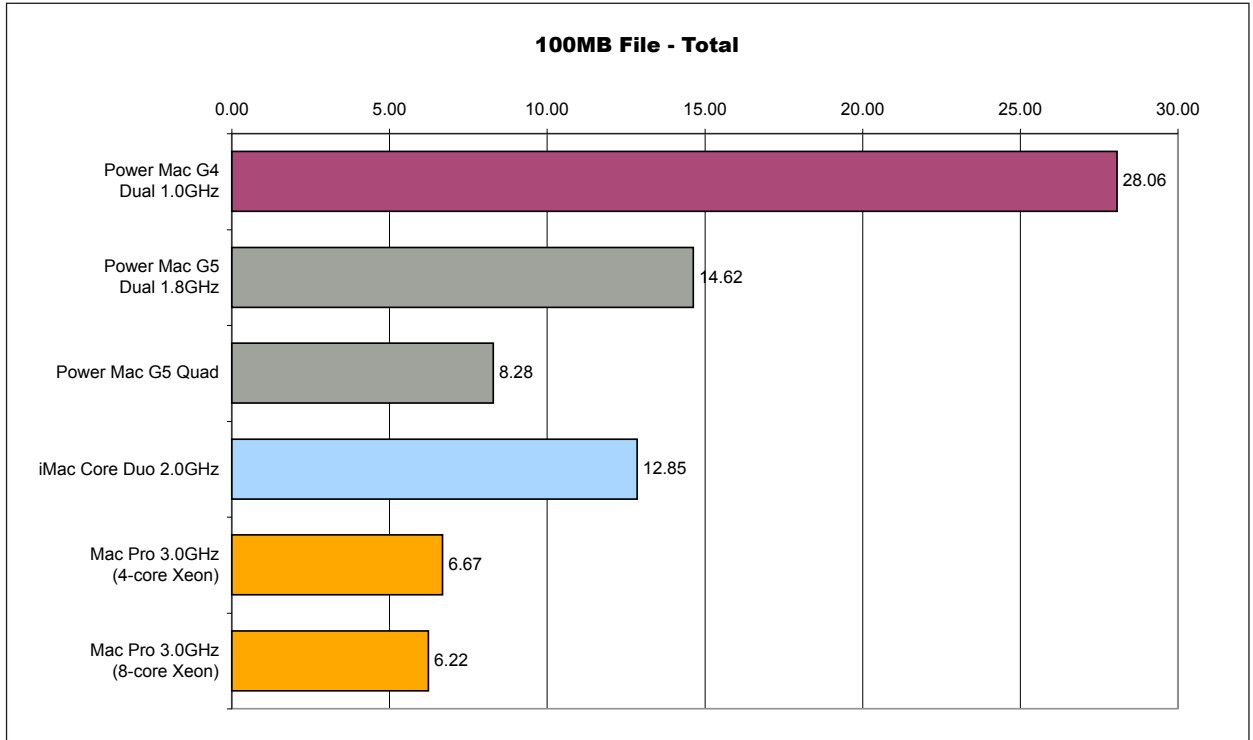


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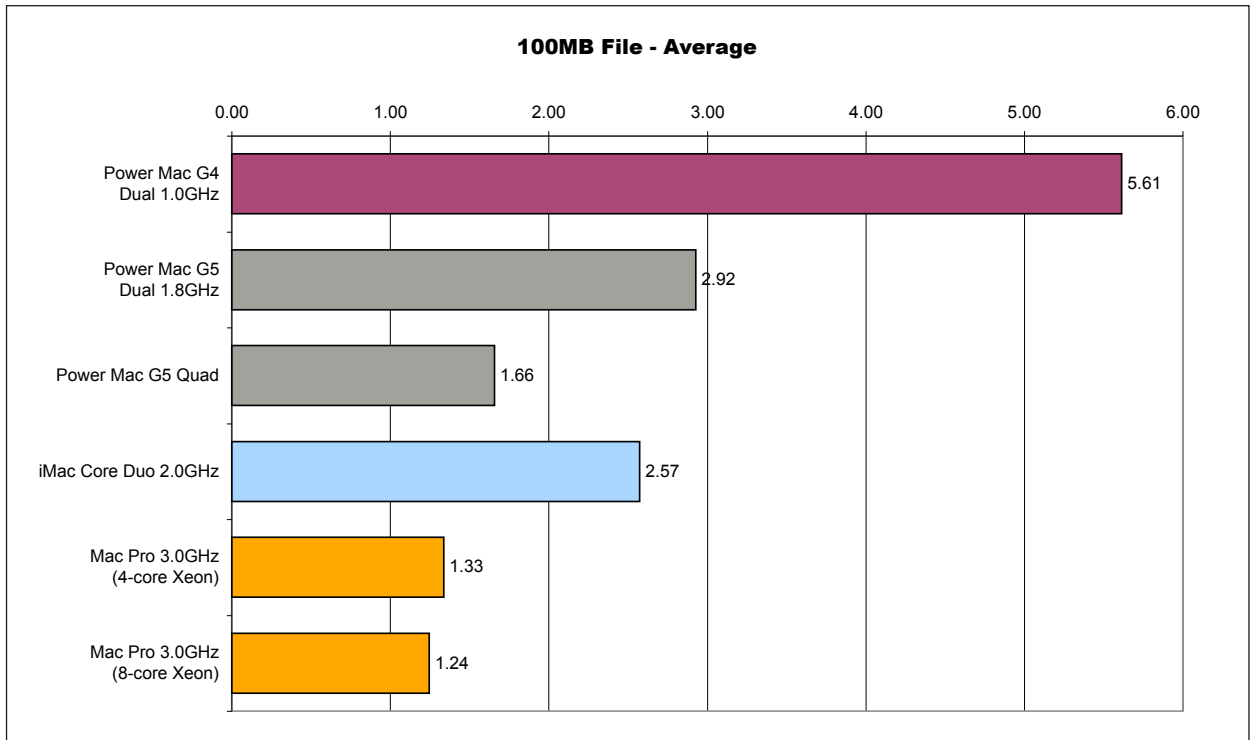


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Key Results : Basic Tests

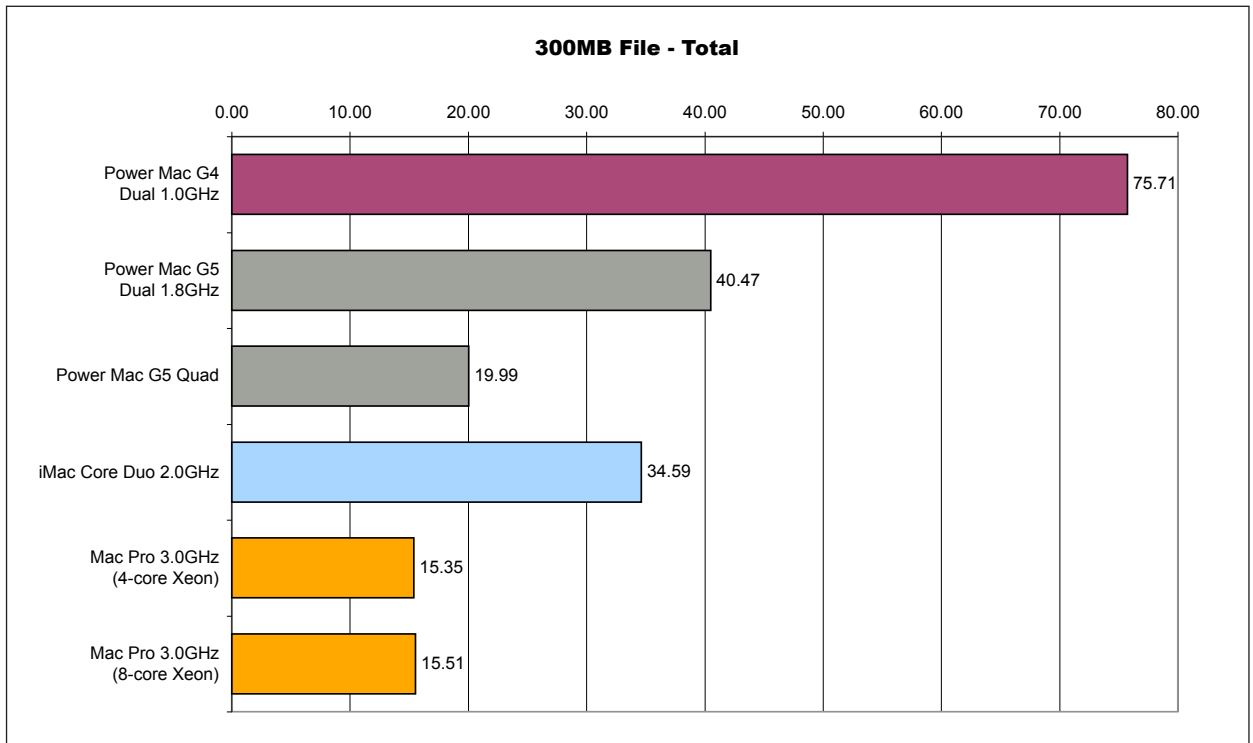


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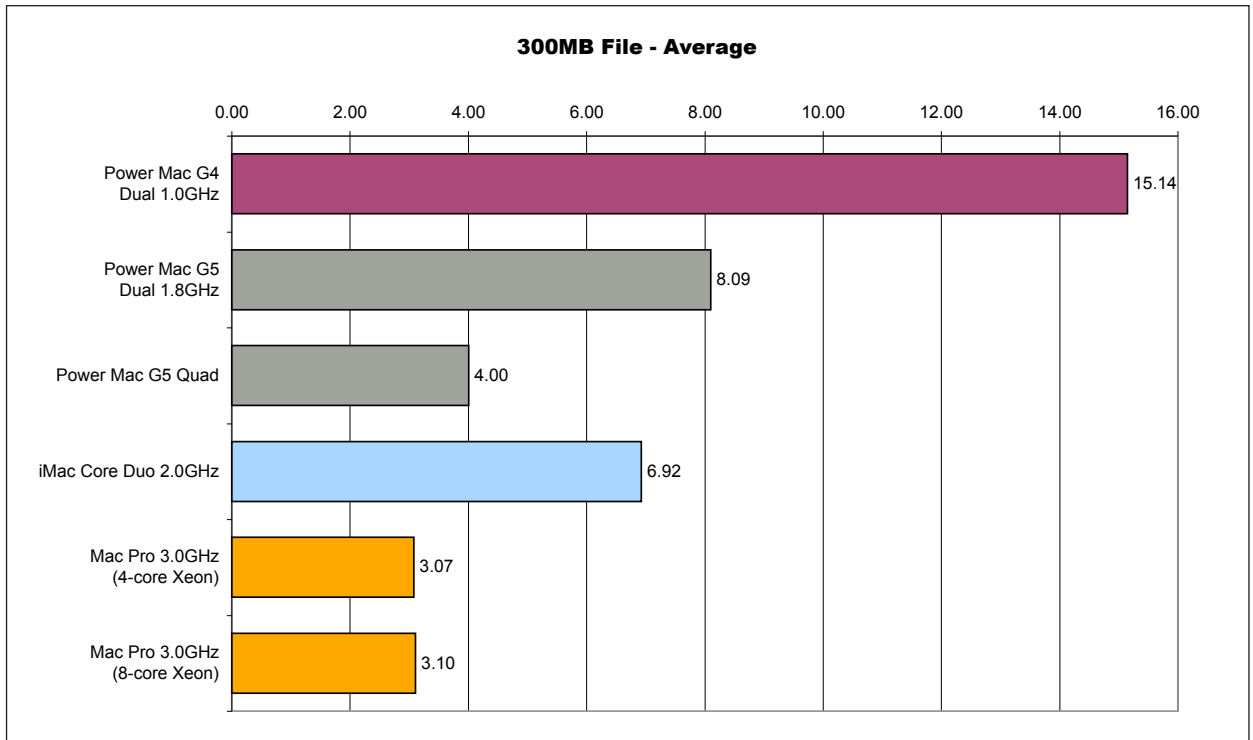


Time scale in seconds. Shorter is better.

Key Results : Standard Benchmarks—100MB Files

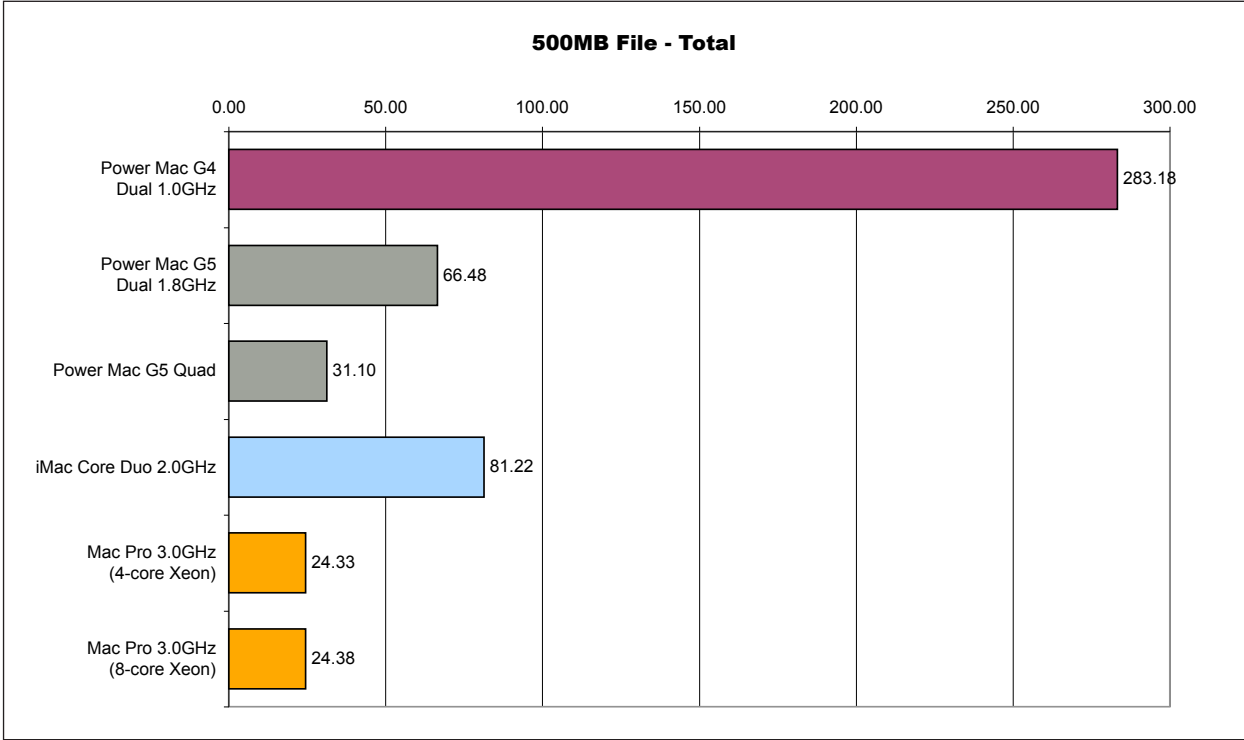


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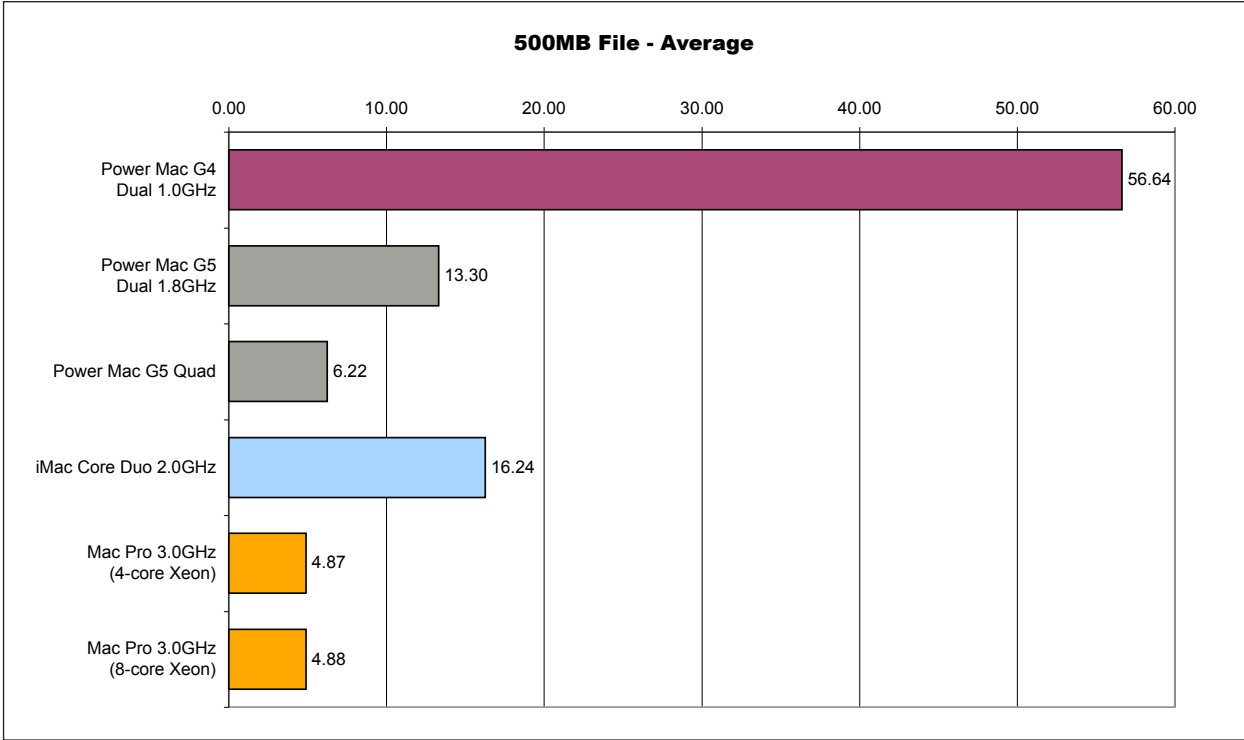


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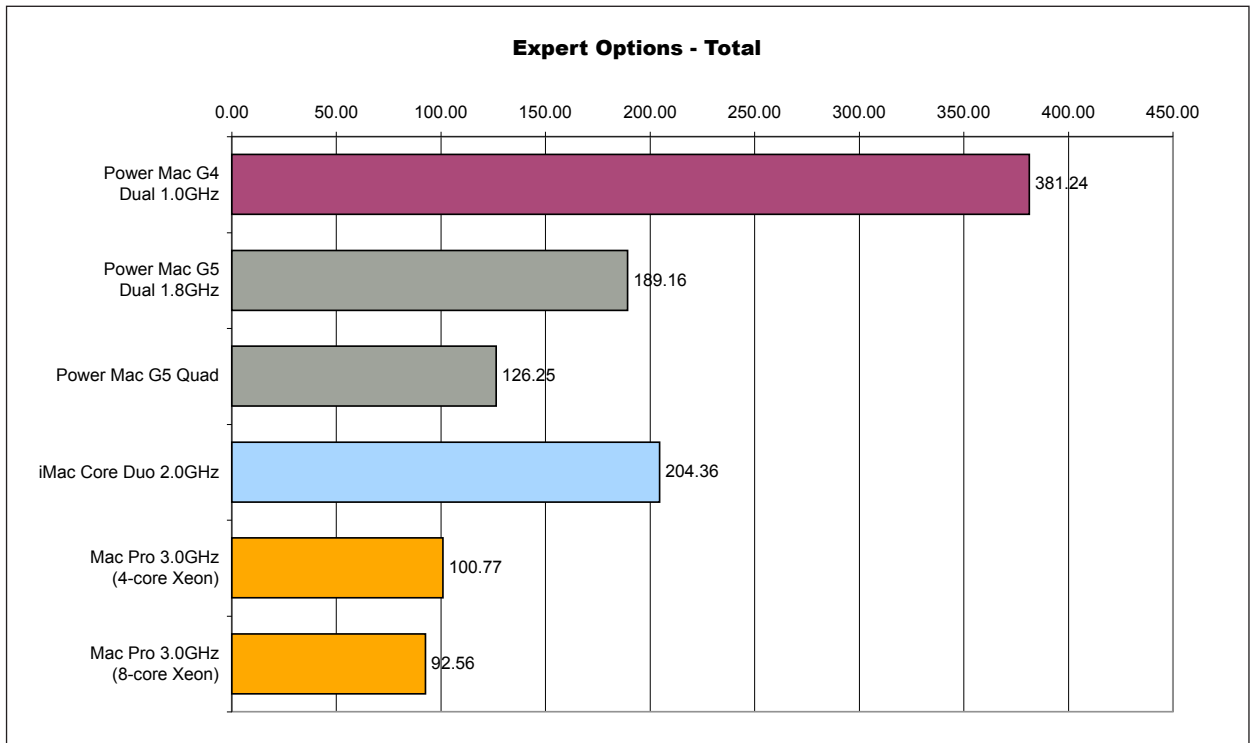
Key Results : Standard Benchmarks—300MB Files



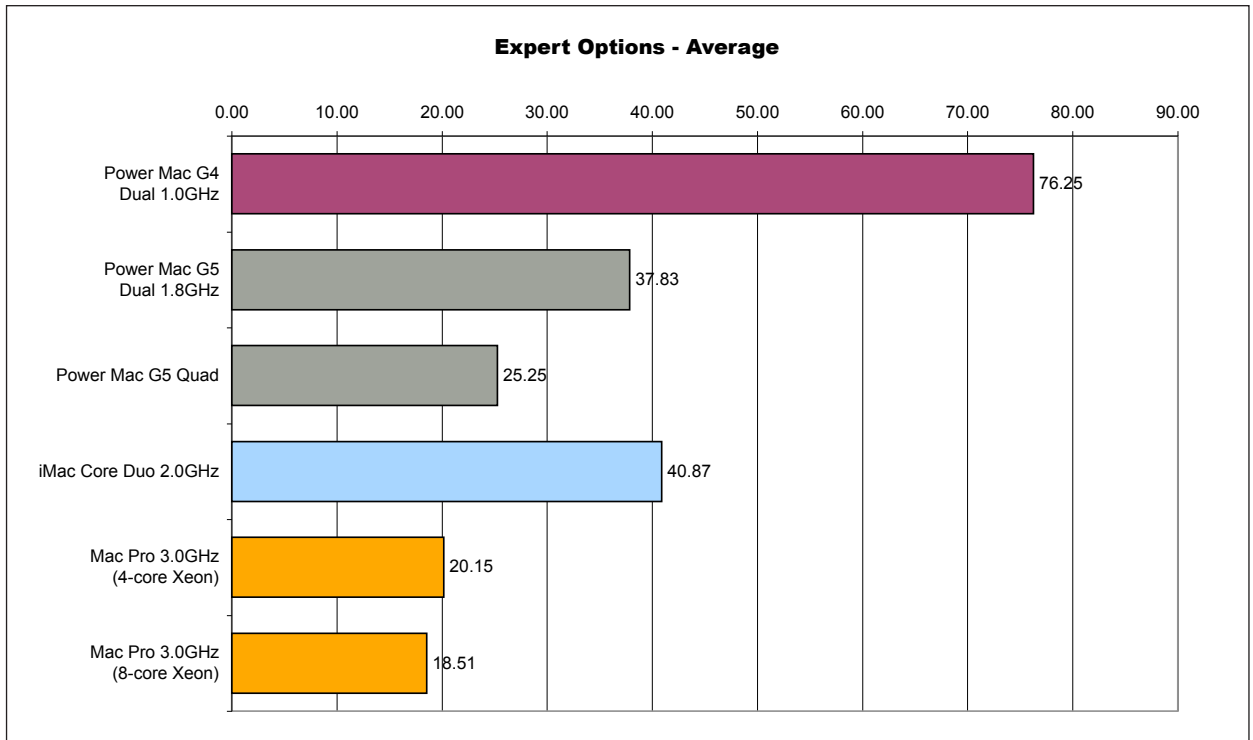
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Time scale in seconds. Shorter is better.

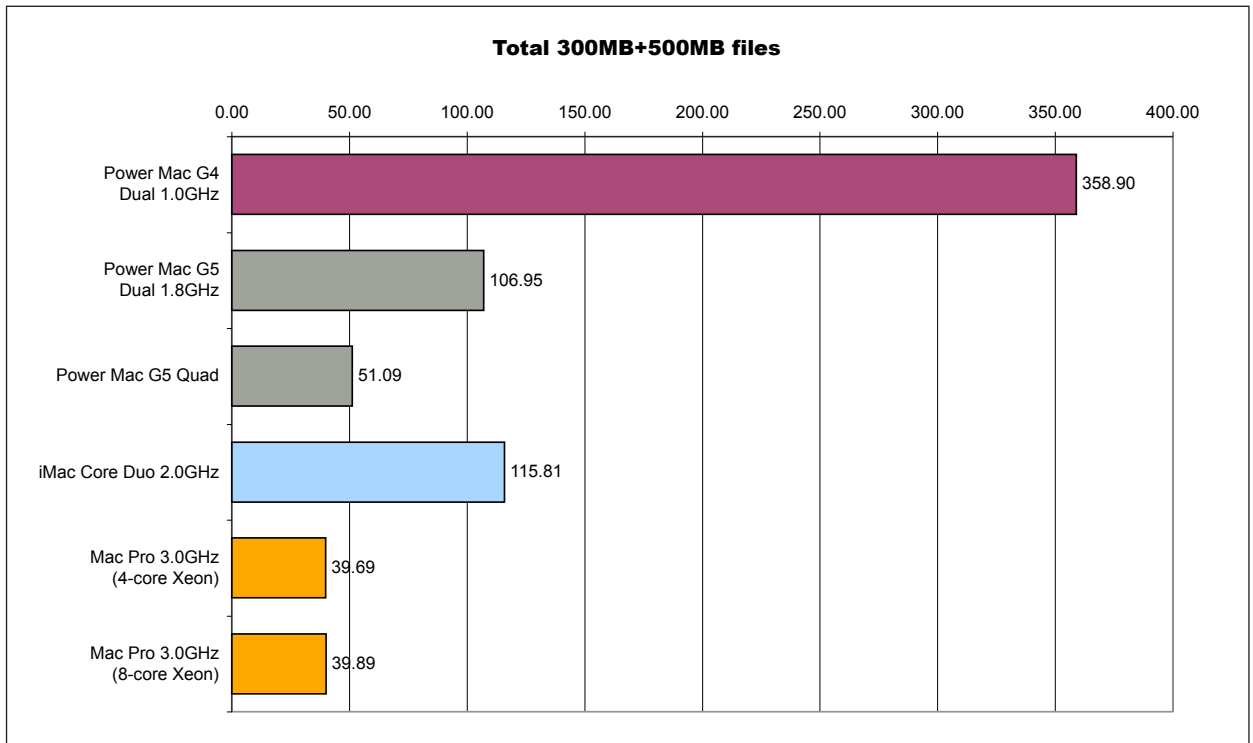


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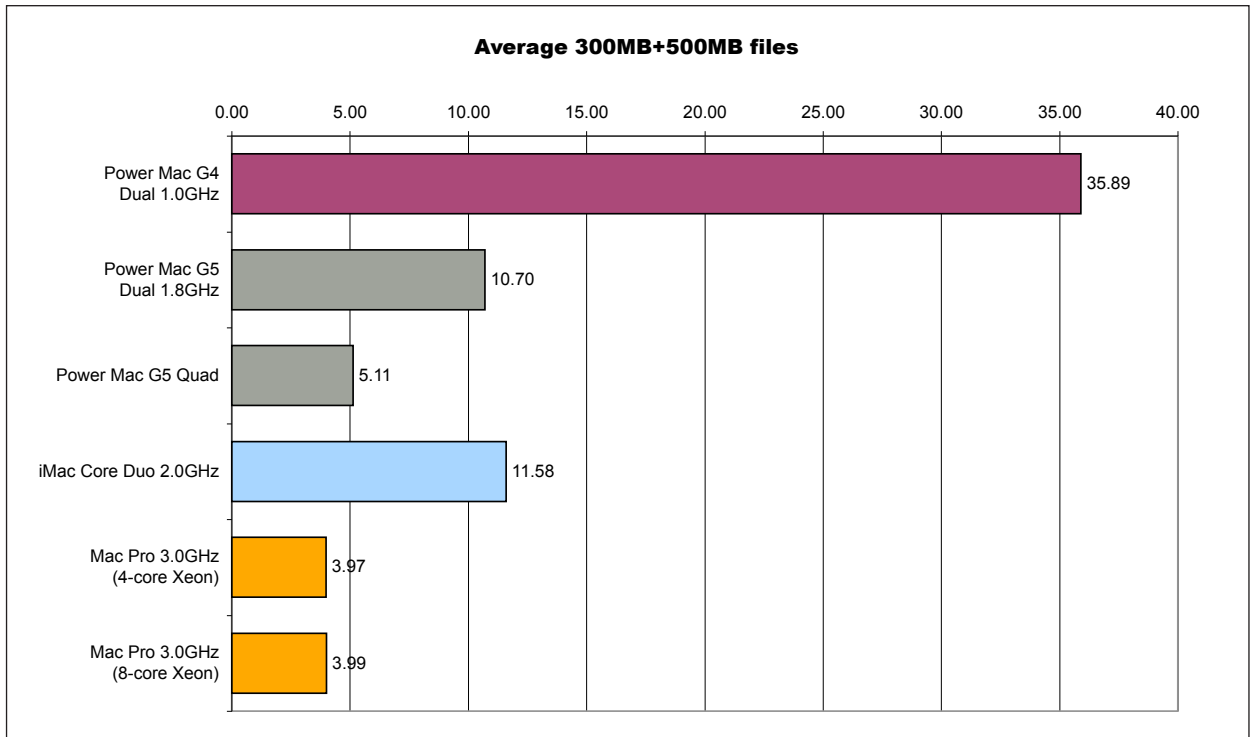


Time scale in seconds. Shorter is better.

Key Results : Expert Options



Time scale in seconds. Shorter is better.

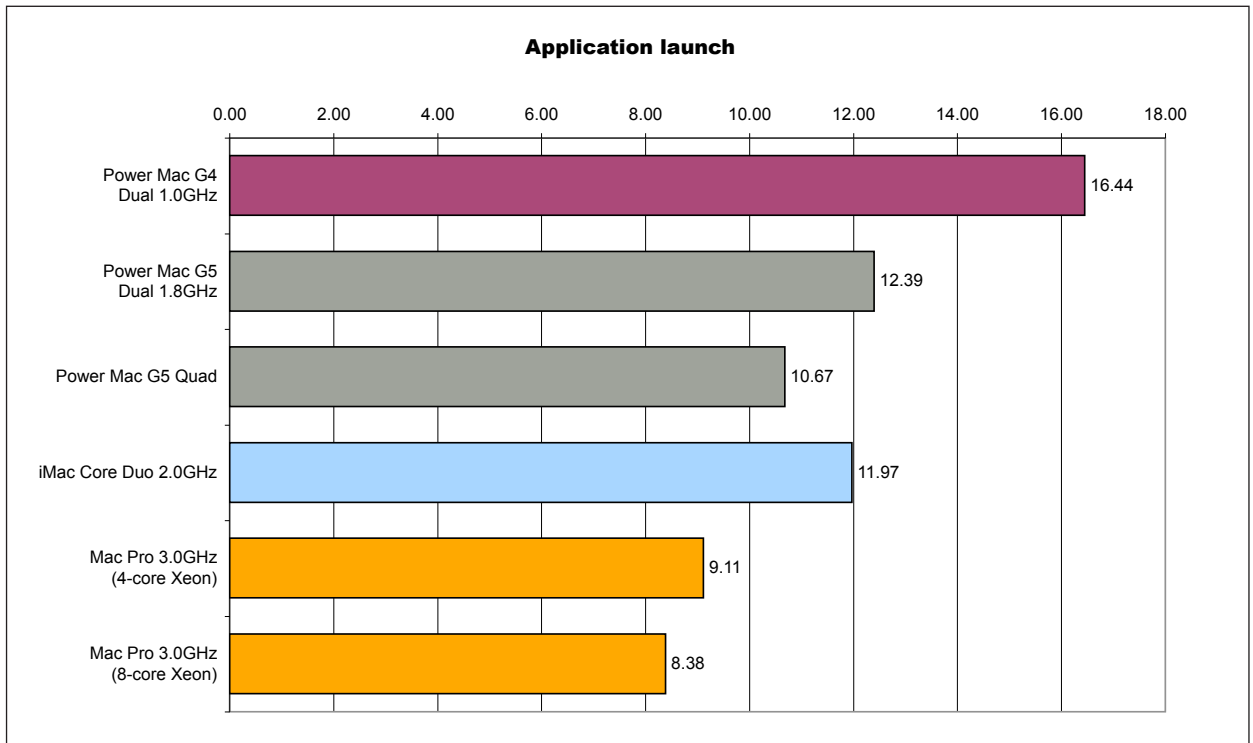


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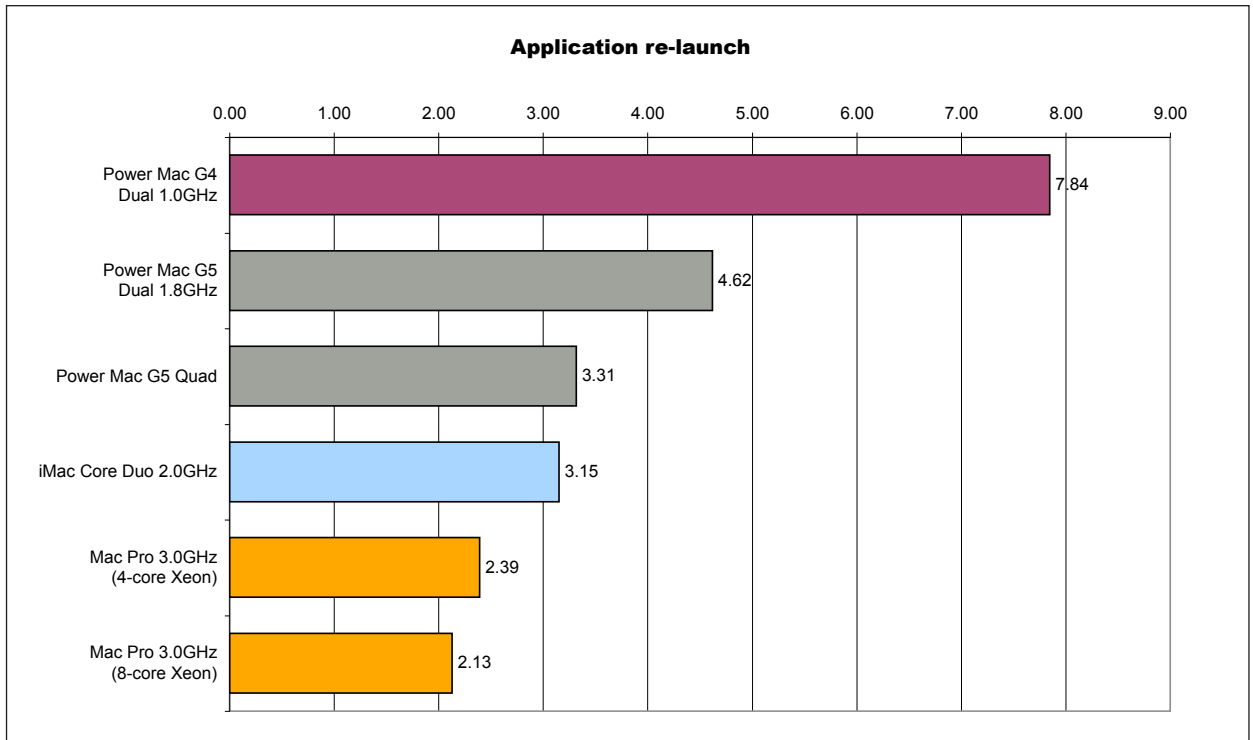
Key Results : Performance with Large Files

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Detailed Results

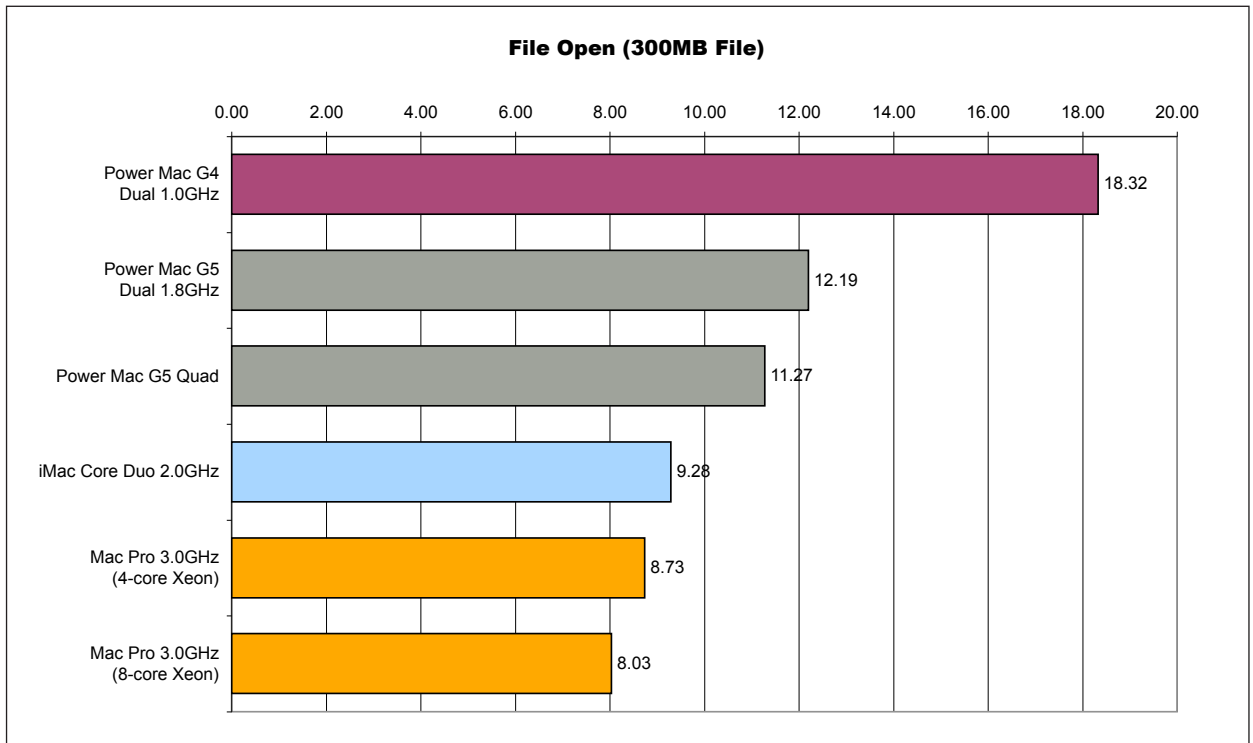


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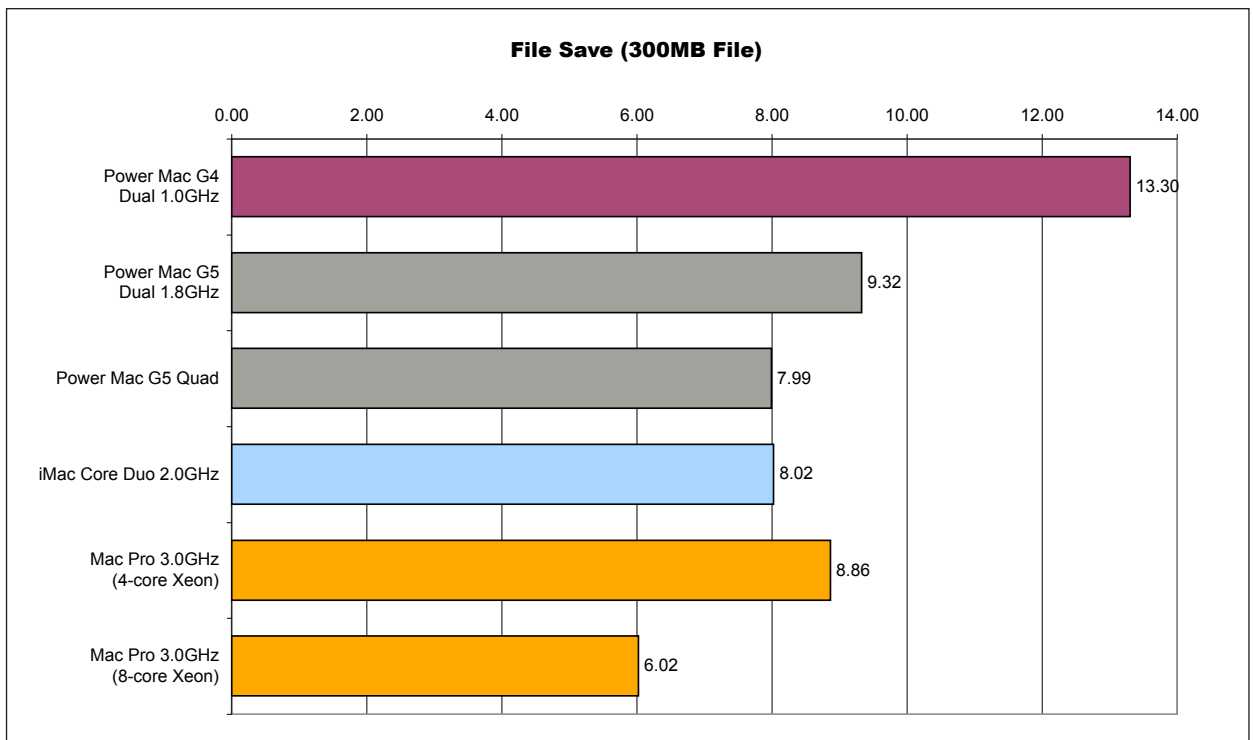


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Detailed Results : Basic Tests

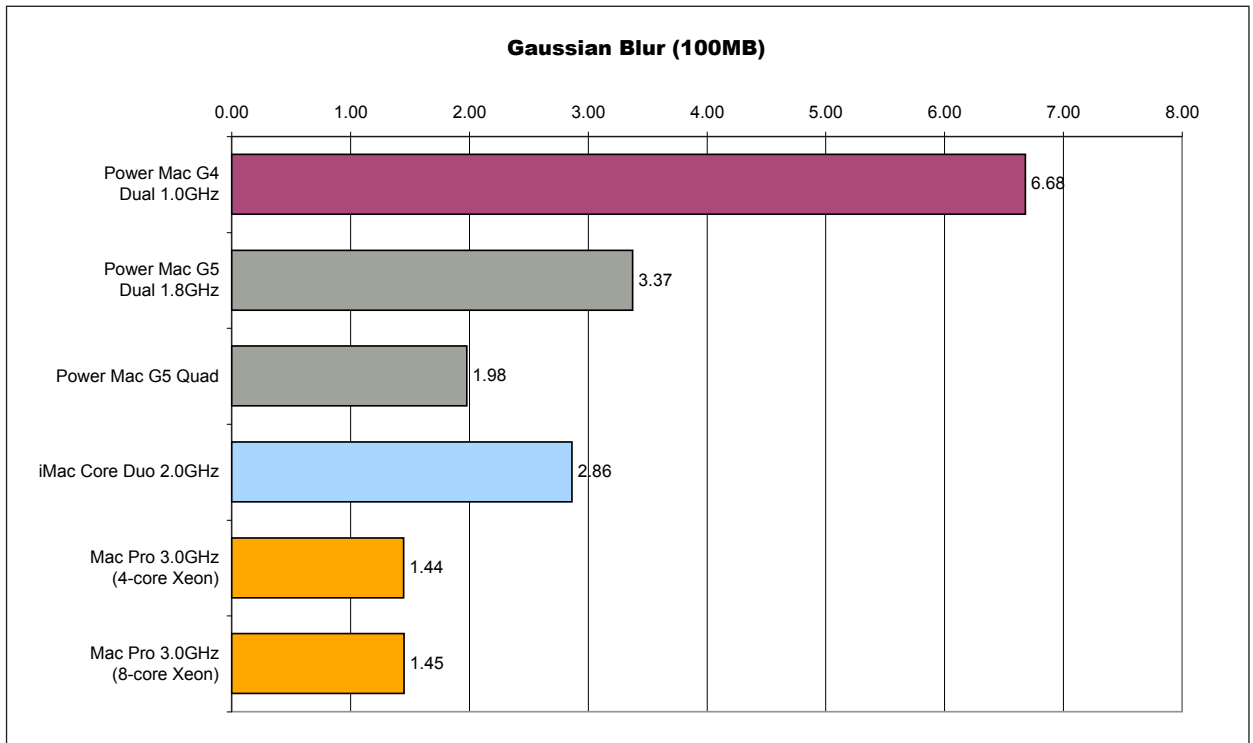


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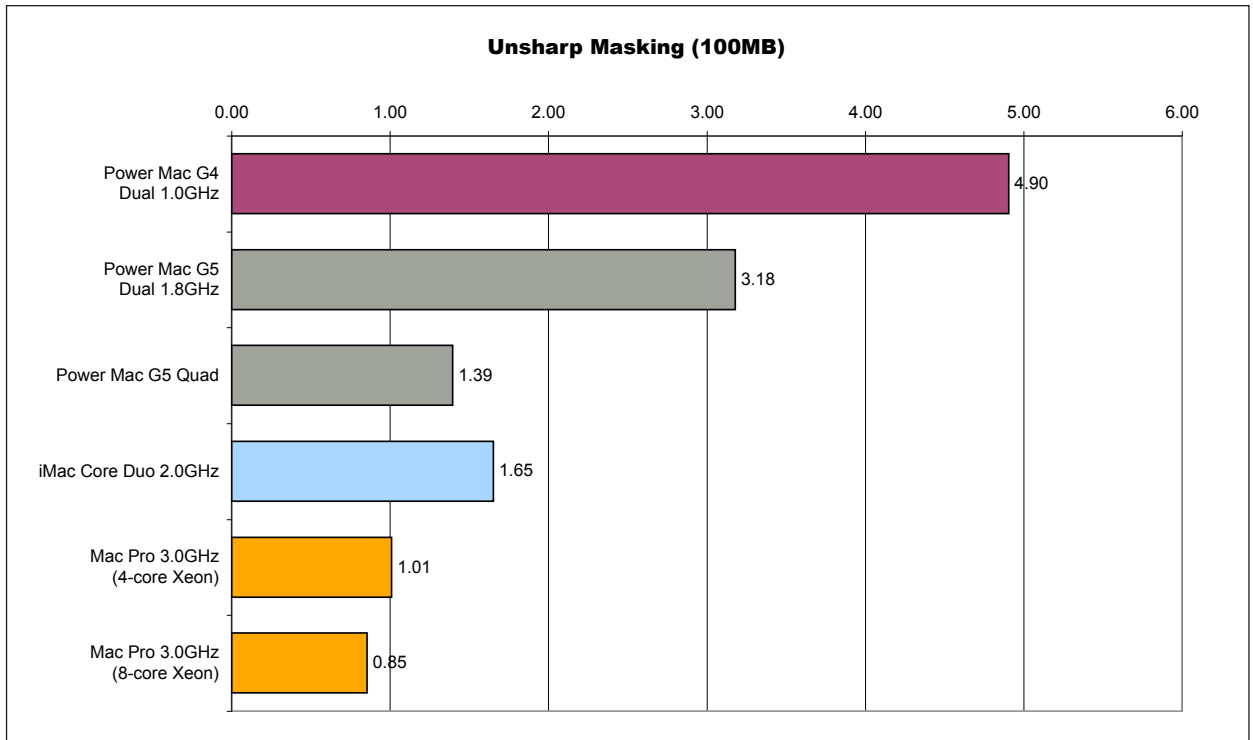


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Detailed Results : Basic Tests

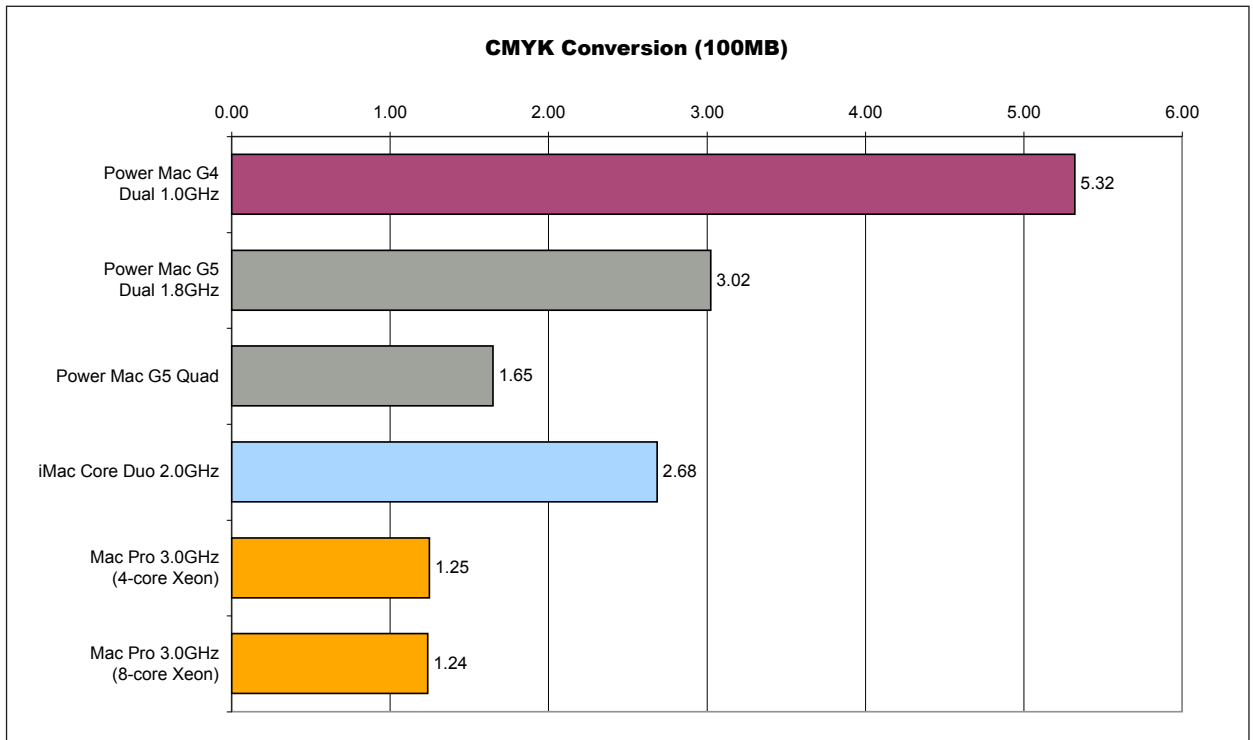


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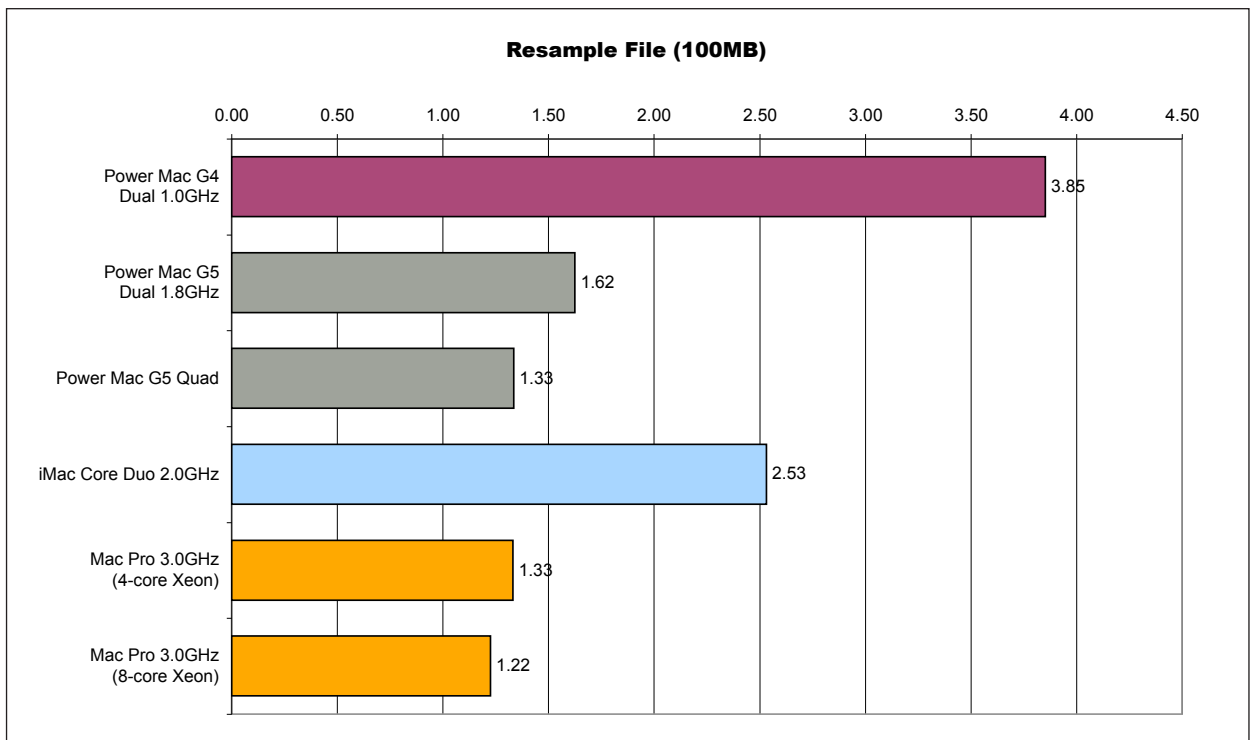


Time scale in seconds. Shorter is better.

Detailed Results : 100MB File

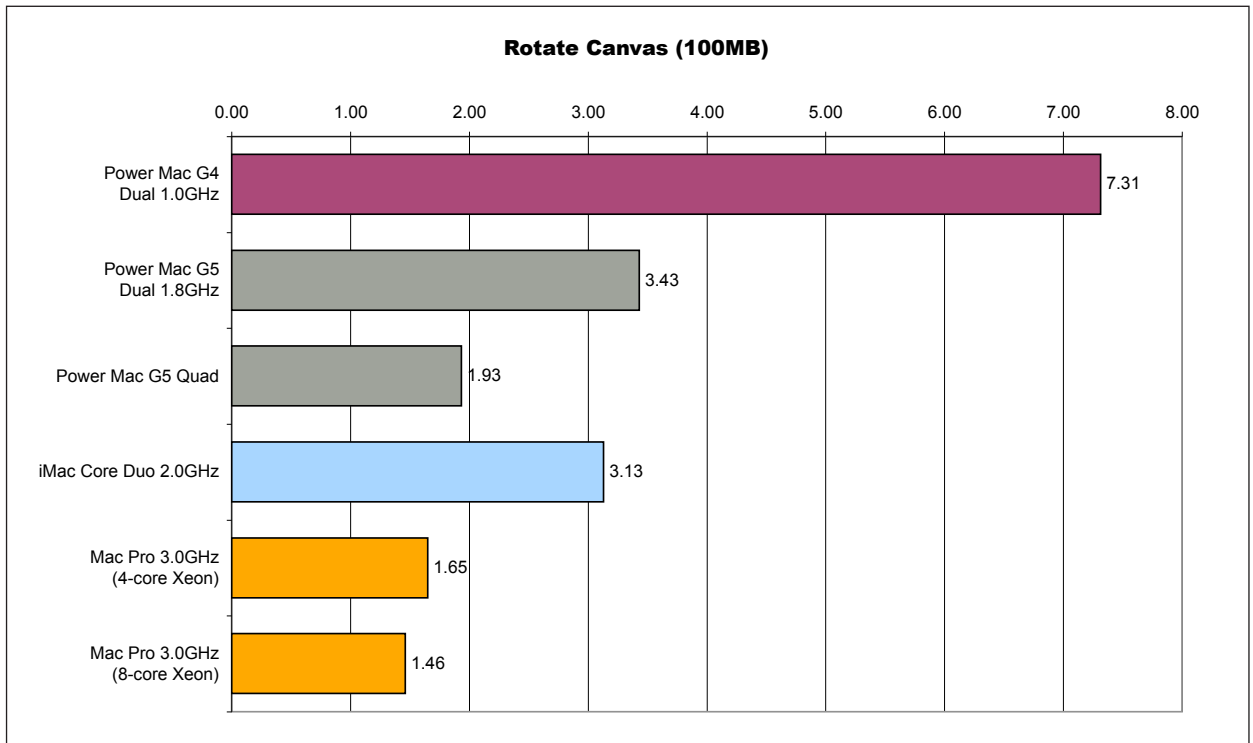


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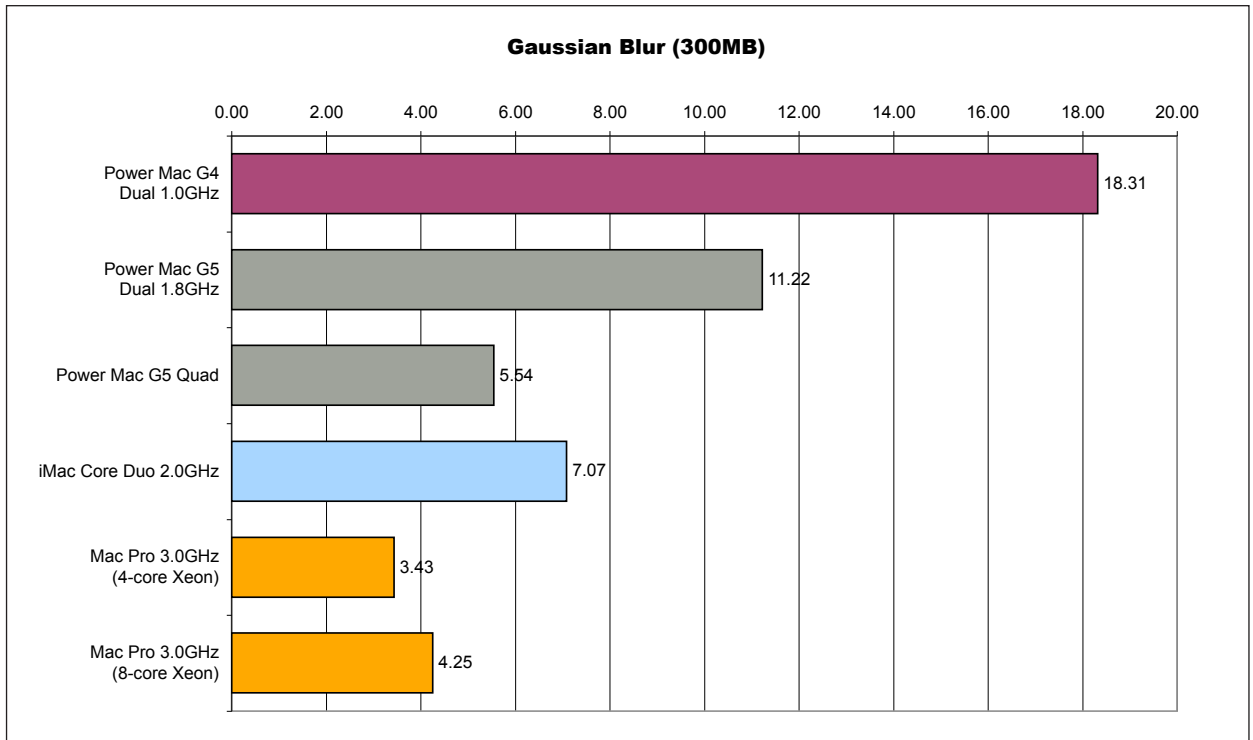


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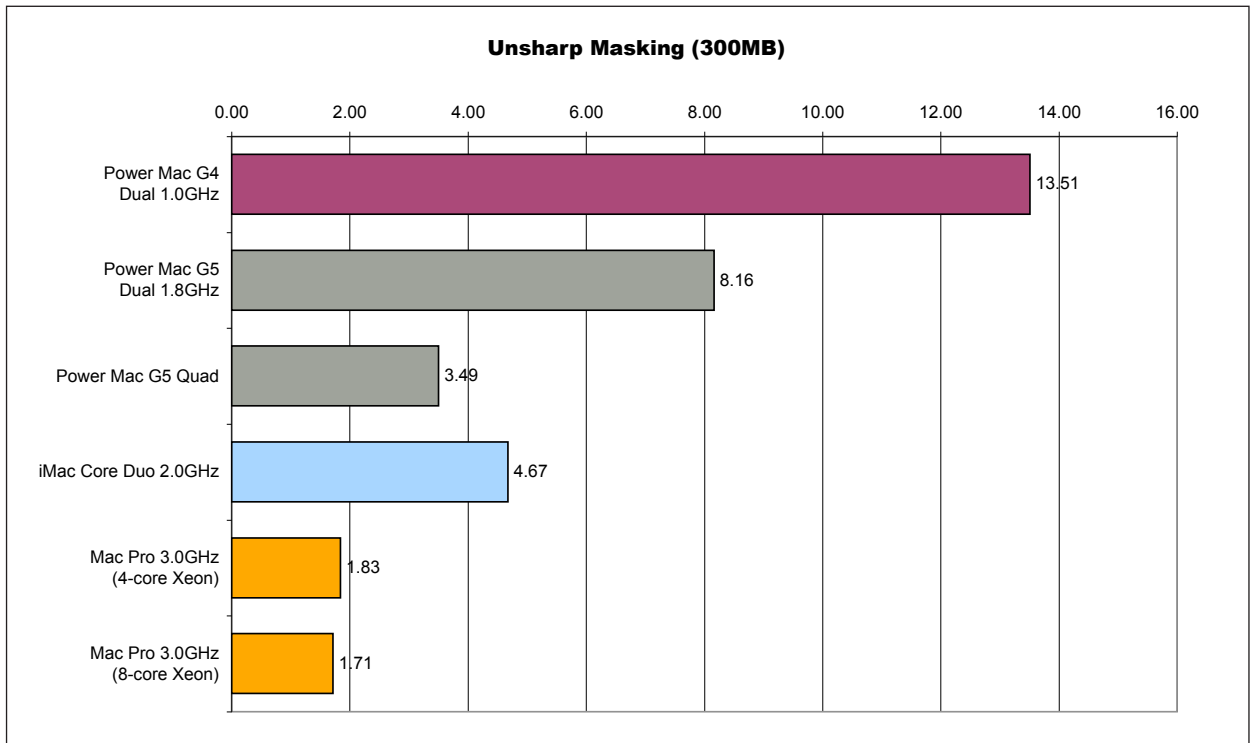


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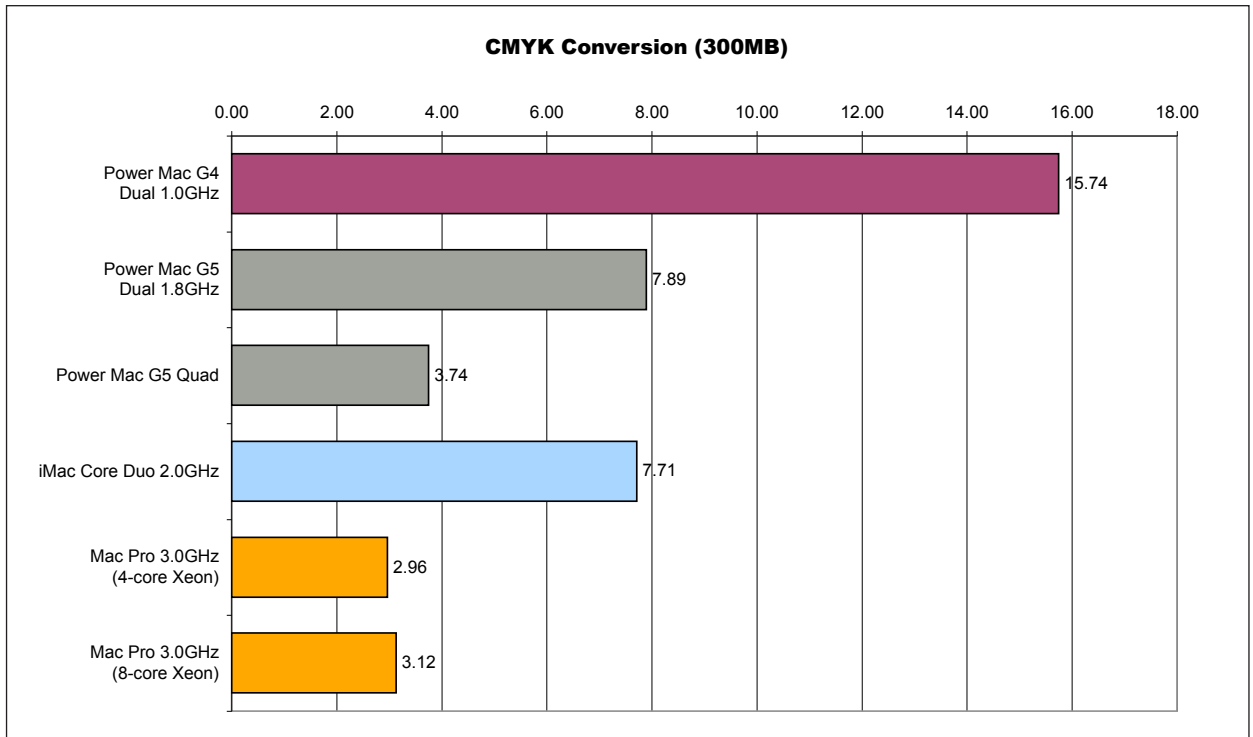


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Detailed Results : 100MB/300MB File

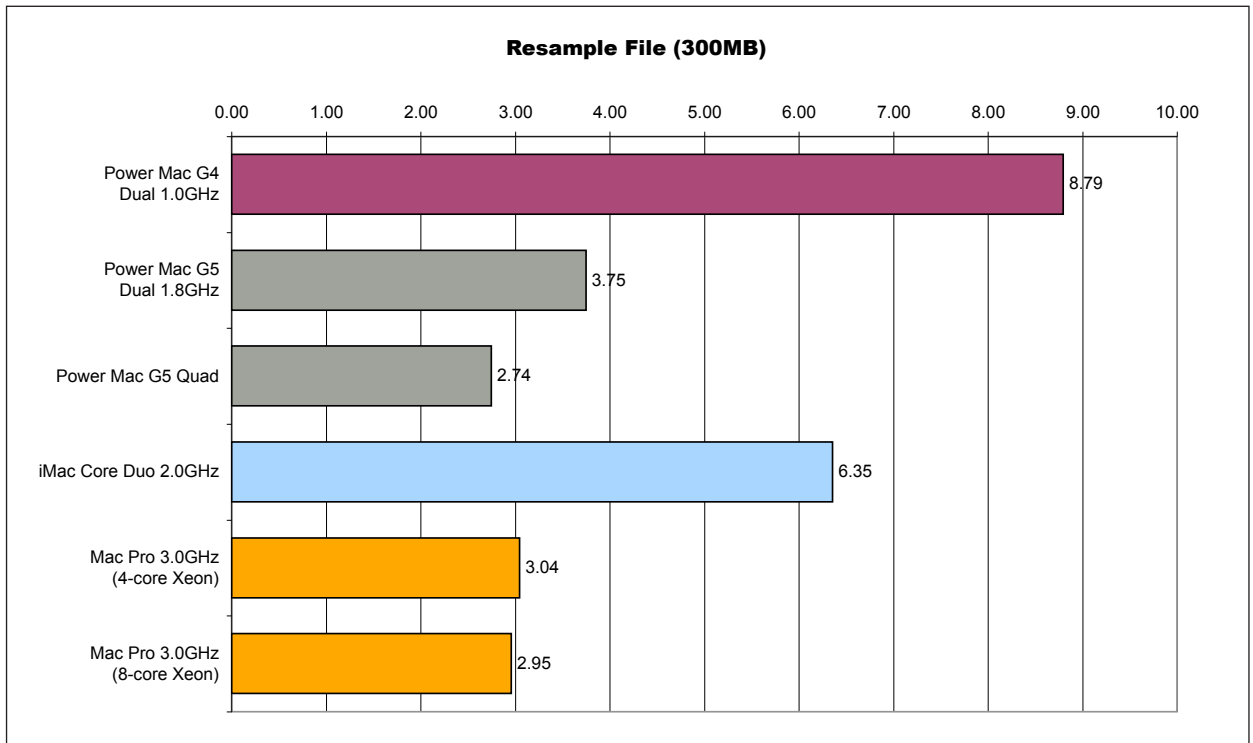


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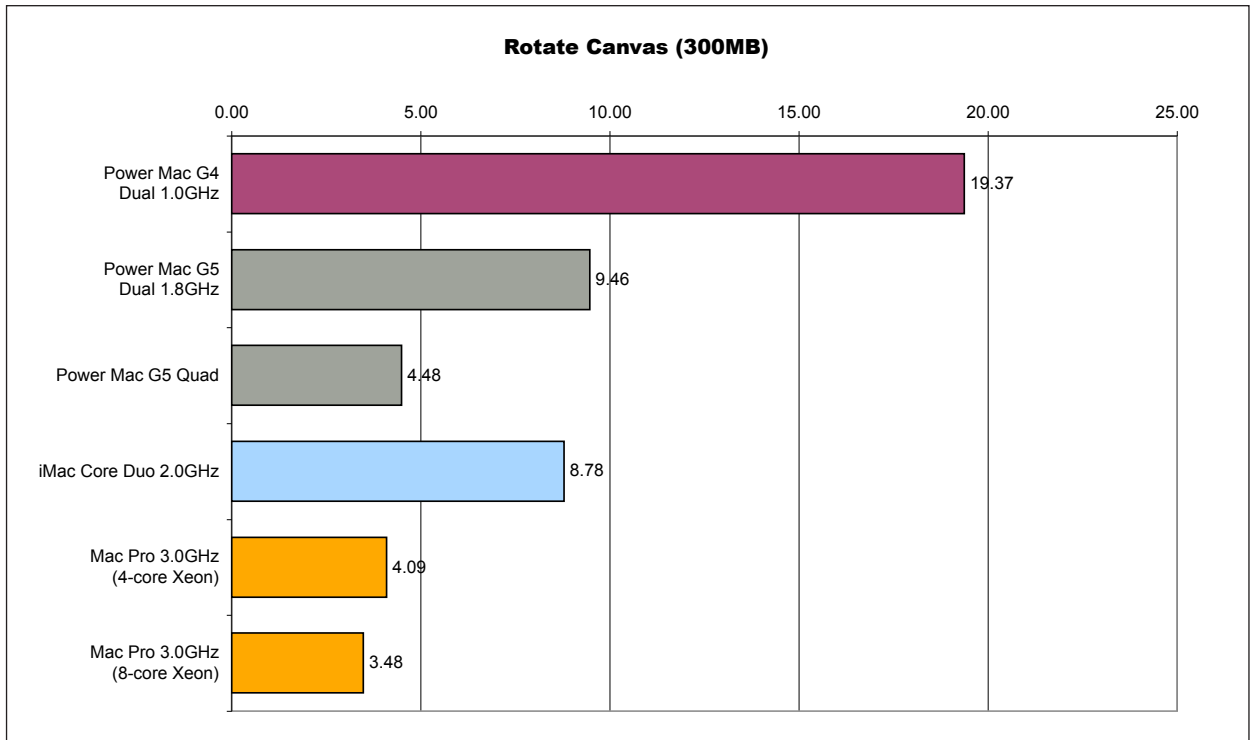


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Detailed Results : 300MB File

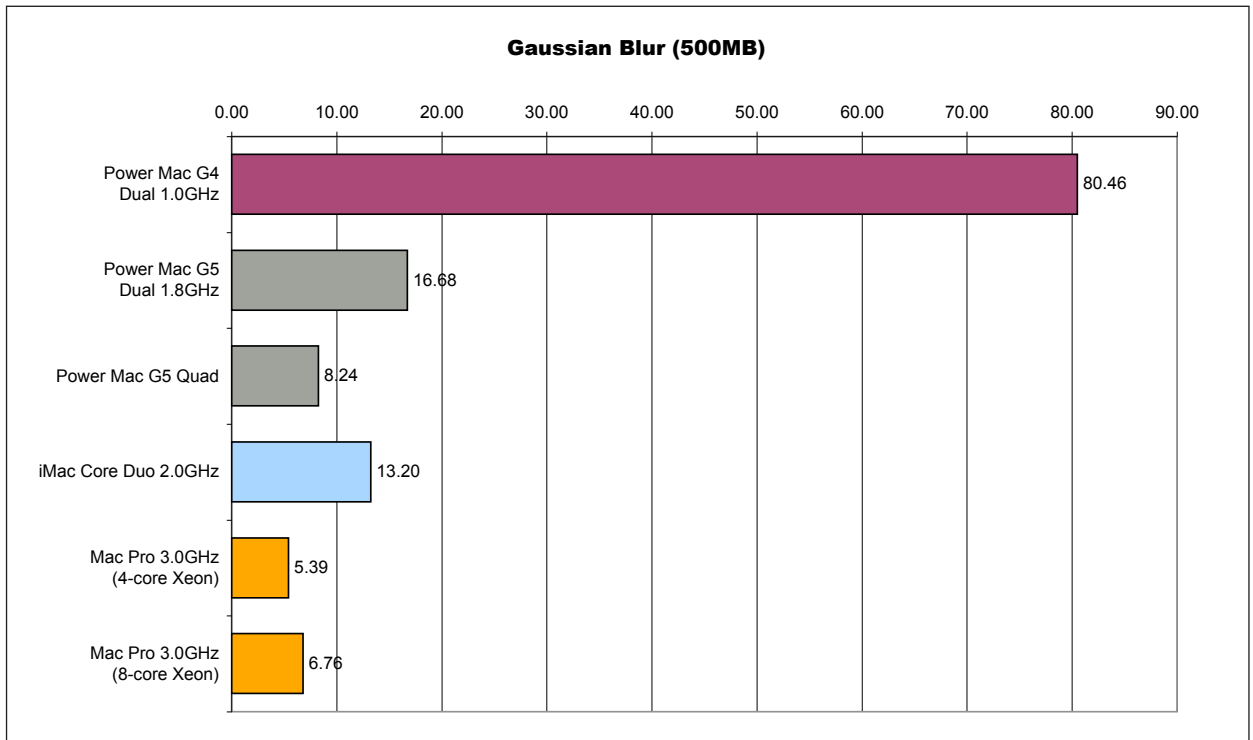


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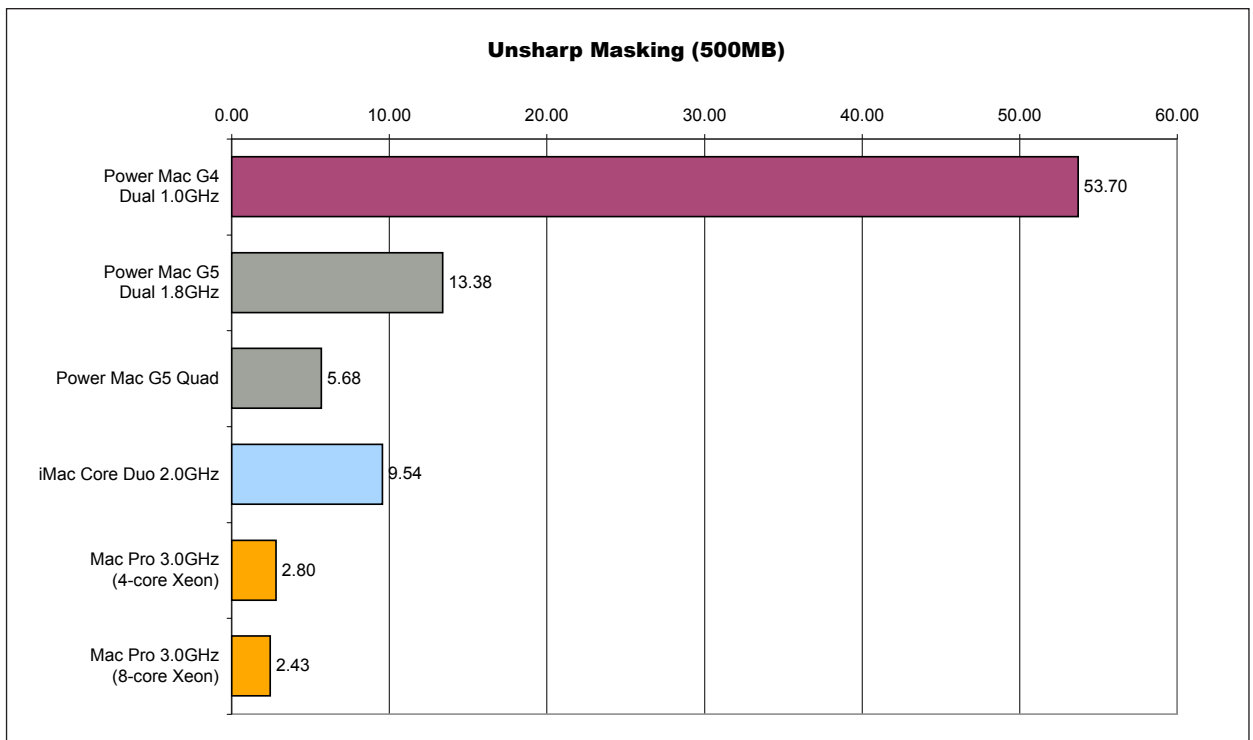


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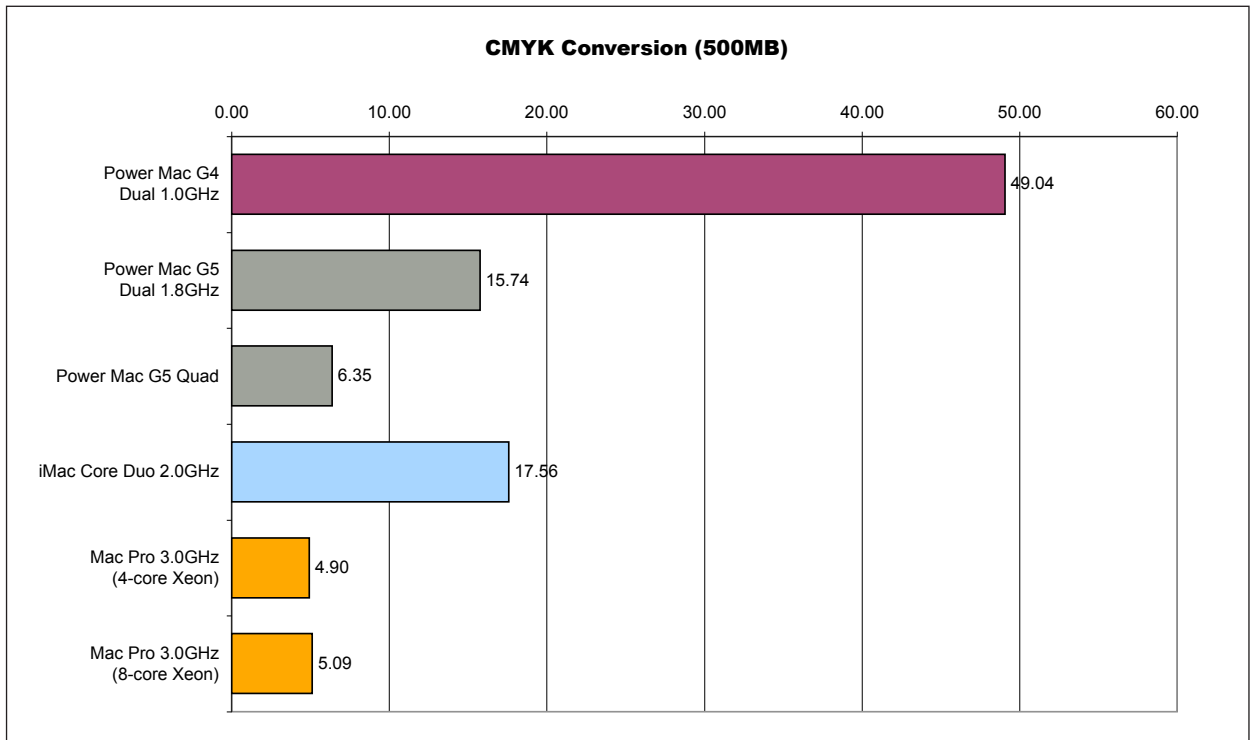


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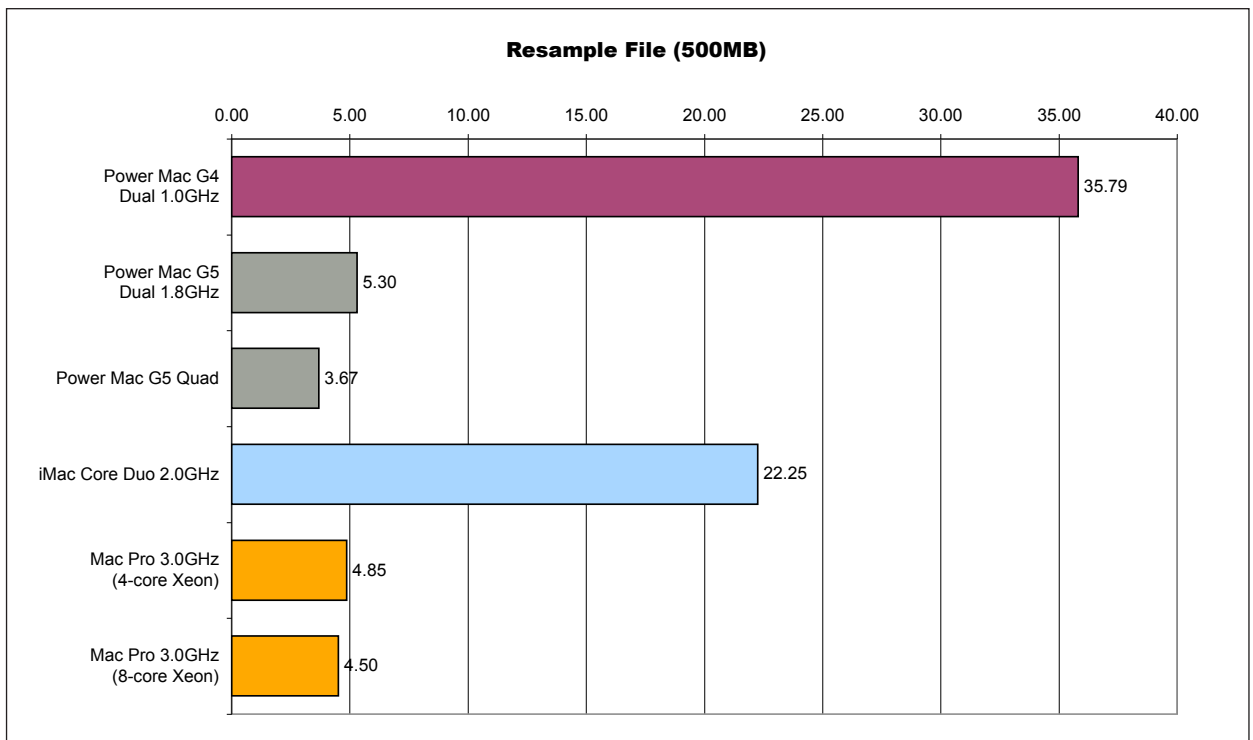


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Detailed Results : 500MB File

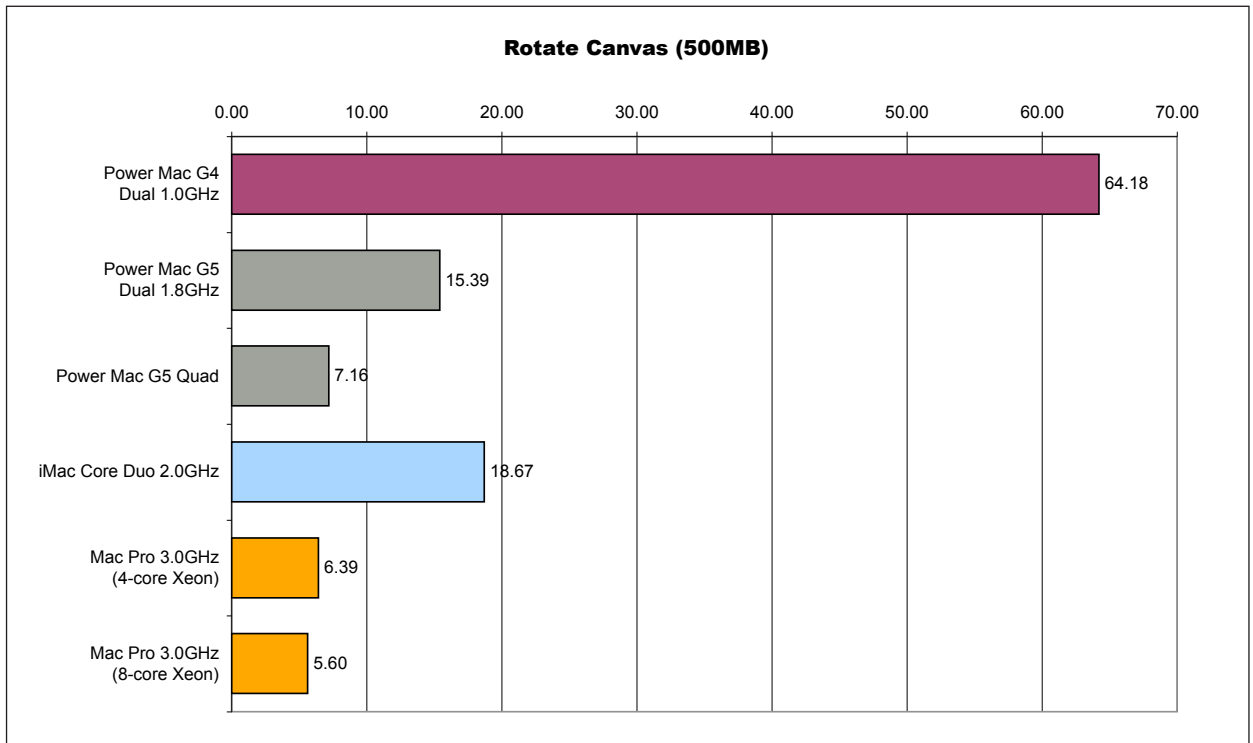


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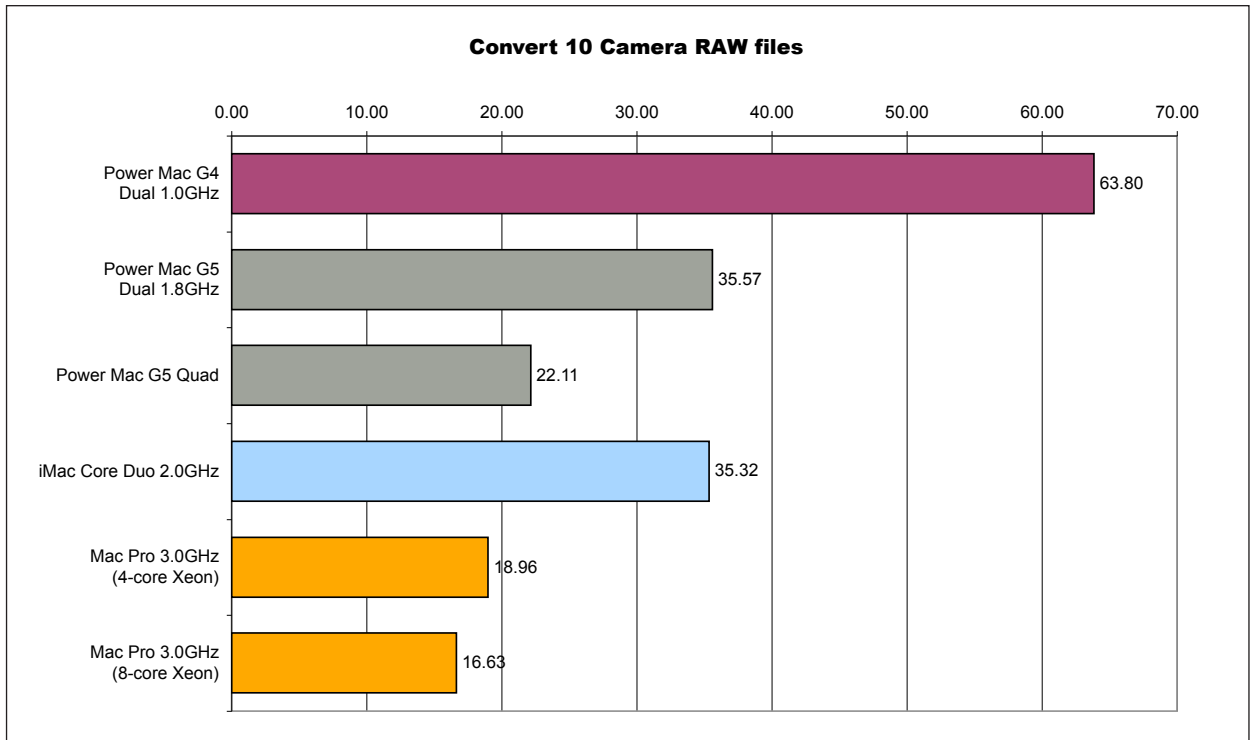


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Detailed Results : 500MB File

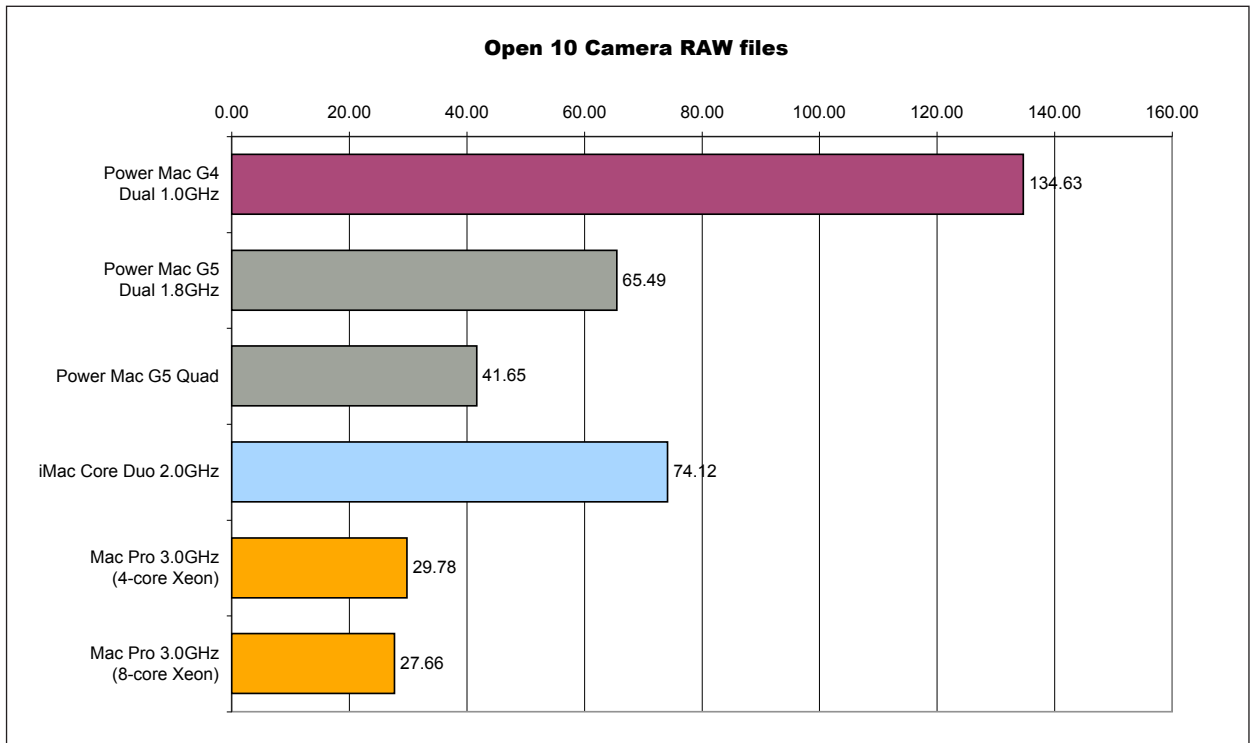


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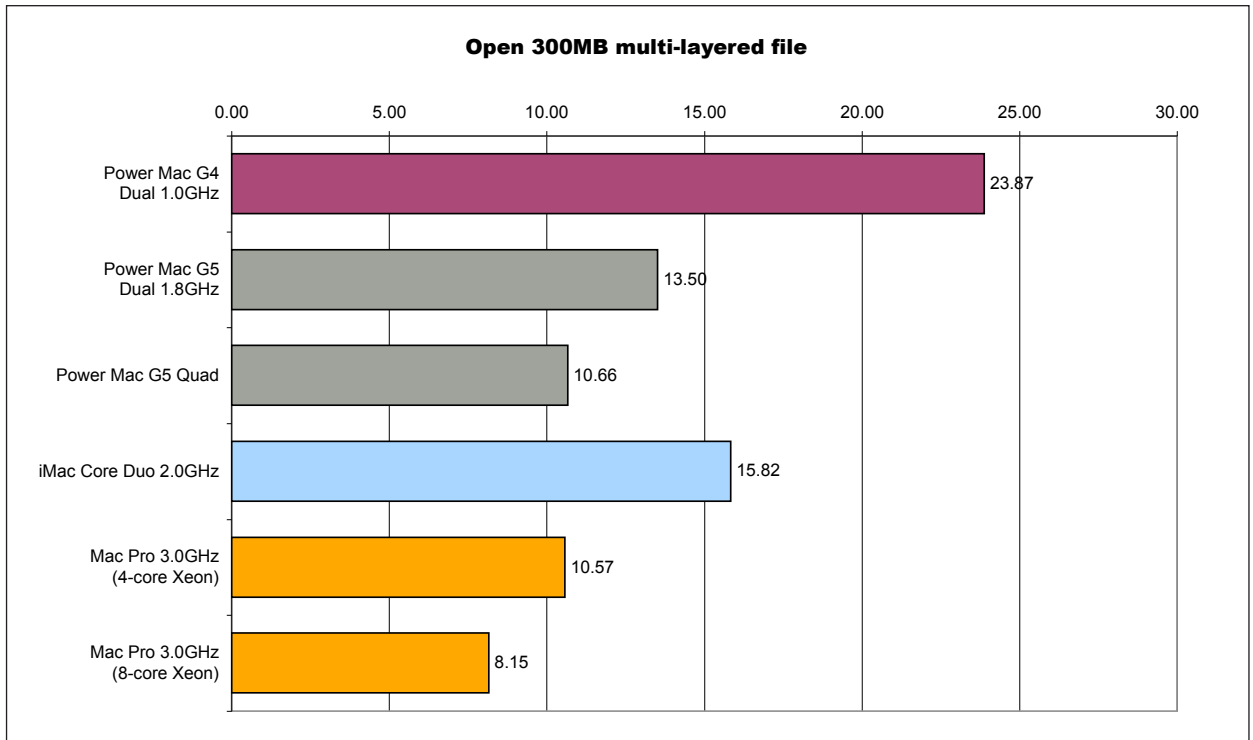


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Detailed Results : 500MB File/Expert Options

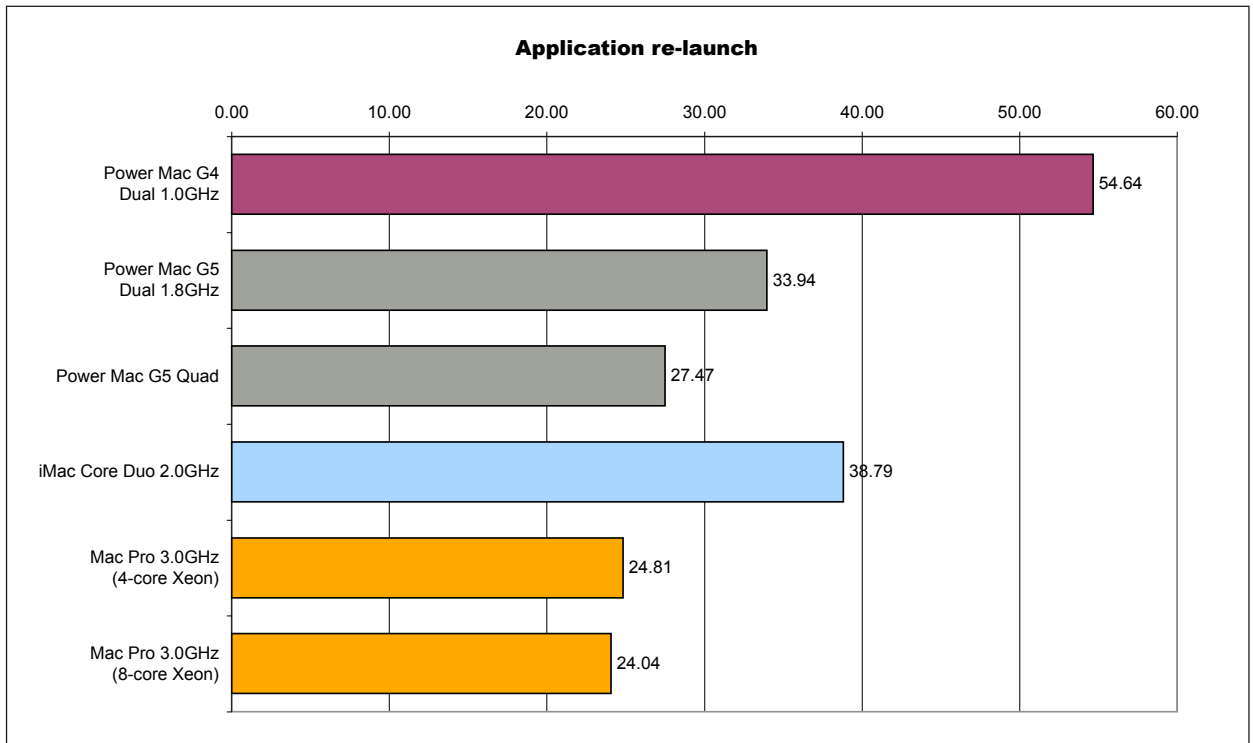


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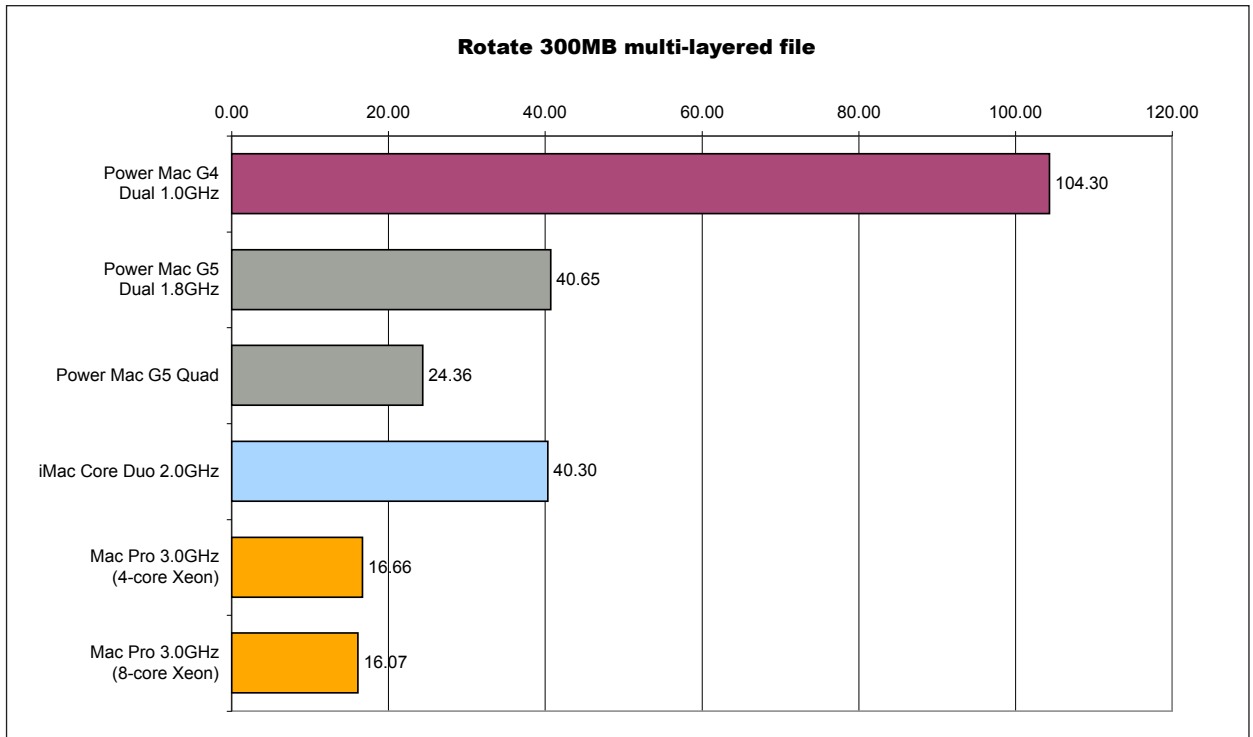


Time scale in seconds. Shorter is better.

Detailed Results : Expert Options



Time scale in seconds. Shorter is better.



Time scale in seconds. Shorter is better.

Detailed Results : Expert Options