

## Geekbench Score

# 2850

Single-Core Score

# 10020

Multi-Core Score

Section	Description	Single-Core	Multi-Core
Integer	Processor integer performance	2765	12093
Floating Point	Processor floating point performance	2842	11260
Memory	Memory performance	3038	3395
Geekbench 3.3.2 for Mac OS X x86 (64-bit)			

## System Information

	<b>MacBook Pro (15-inch Early 2011)</b>
Operating System	Mac OS X 10.11.3 (Build 15D21)
Model	MacBook Pro (15-inch Early 2011)
Model ID	MacBookPro8,2
Motherboard	Apple Inc. Mac-94245A3940C91C80 MacBookPro8,2
Processor	Intel Core i7-2720QM @ 2.20 GHz 1 Processor, 4 Cores, 8 Threads
Processor ID	GenuineIntel Family 6 Model 42 Stepping 7
L1 Instruction Cache	32.0 KB x 4
L1 Data Cache	32.0 KB x 4

L2 Cache	256 KB x 4
L3 Cache	6.00 MB
Memory	16.0 GB 1600 MHz DDR3
BIOS	Apple Inc. MBP81.88Z.0047.B2C.1510261540

## Integer

**Single-Core Score** **2765**

**Multi-Core Score** **12093**

**AES**  
single-core **2702**  
2.31 GB/sec 

**AES**  
multi-core **10659**  
9.12 GB/sec 

**Twofish**  
single-core **2441**  
137.0 MB/sec 

**Twofish**  
multi-core **12594**  
706.8 MB/sec 

**SHA1**  
single-core **2693**  
292.4 MB/sec 

**SHA1**  
multi-core **10842**  
1.15 GB/sec 
















**SHA2**  
single-core **2892**  
125.2 MB/sec 

**SHA2**  
multi-core **11007**  
476.3 MB/sec 











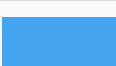
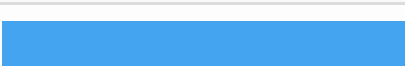

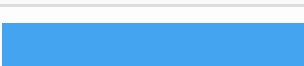

**BZip2 Compress**  
single-core **2502**  
10.2 MB/sec 






**BZip2 Compress**  
multi-core **11399**  
46.3 MB/sec 

**BZip2 Decompress**  
single-core **2442**  
13.2 MB/sec 








BZip2 Decompress multi-core	12303 66.7 MB/sec	
JPEG Compress single-core	3045 42.4 Mpixels/sec	
JPEG Compress multi-core	14176 197.5 Mpixels/sec	
JPEG Decompress single-core	4055 100.2 Mpixels/sec	
JPEG Decompress multi-core	16140 399.0 Mpixels/sec	
PNG Compress single-core	2804 2.24 Mpixels/sec	
PNG Compress multi-core	14450 11.5 Mpixels/sec	
PNG Decompress single-core	2897 33.4 Mpixels/sec	
PNG Decompress multi-core	12834 148.0 Mpixels/sec	
Sobel single-core	2808 102.2 Mpixels/sec	
Sobel multi-core	12359 449.7 Mpixels/sec	
Lua single-core	2646 2.38 MB/sec	
Lua multi-core	10383 9.33 MB/sec	
Dijkstra single-core	2361 8.47 Mpairs/sec	
Dijkstra multi-core	9673 34.7 Mpairs/sec	

Floating Point

<b>Single-Core Score</b>	<b>2842</b>	
<b>Multi-Core Score</b>	<b>11260</b>	
<b>BlackScholes</b> single-core	<b>3548</b> 15.8 Mnodes/sec	
<b>BlackScholes</b> multi-core	<b>14508</b> 64.6 Mnodes/sec	
<b>Mandelbrot</b> single-core	<b>2508</b> 2.57 Gflops	
<b>Mandelbrot</b> multi-core	<b>13205</b> 13.5 Gflops	
<b>Sharpen Filter</b> single-core	<b>2501</b> 1.85 Gflops	
<b>Sharpen Filter</b> multi-core	<b>10206</b> 7.56 Gflops	
<b>Blur Filter</b> single-core	<b>2016</b> 1.92 Gflops	
<b>Blur Filter</b> multi-core	<b>9483</b> 9.04 Gflops	
<b>SGEMM</b> single-core	<b>3703</b> 10.4 Gflops	
<b>SGEMM</b> multi-core	<b>12576</b> 35.2 Gflops	
<b>DGEMM</b> single-core	<b>3418</b> 5.02 Gflops	
<b>DGEMM</b> multi-core	<b>11895</b> 17.5 Gflops	
<b>SFFT</b> single-core	<b>2473</b> 2.61 Gflops	
<b>SFFT</b> multi-core	<b>8922</b> 9.41 Gflops	
<b>DFFT</b> single-core	<b>2503</b> 2.28 Gflops	

DFFT multi-core	9040 8.23 Gflops	
N-Body single-core	2833 1.05 Mpairs/sec	
N-Body multi-core	10663 3.96 Mpairs/sec	
Ray Trace single-core	3464 4.09 Mpixels/sec	
Ray Trace multi-core	13743 16.2 Mpixels/sec	

## Memory

<b>Single-Core Score</b>	<b>3038</b>	
<b>Multi-Core Score</b>	<b>3395</b>	
Stream Copy single-core	2996 12.0 GB/sec	
Stream Copy multi-core	3408 13.6 GB/sec	
Stream Scale single-core	3029 12.1 GB/sec	
Stream Scale multi-core	3402 13.6 GB/sec	
Stream Add single-core	3041 13.8 GB/sec	
Stream Add multi-core	3341 15.1 GB/sec	
Stream Triad single-core	3088 13.6 GB/sec	
Stream Triad multi-core	3431 15.1 GB/sec	