

# The 15-inch MacBook Pro uses a Haswell chip to show off

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According to some recent Geekbench benchmark results, the "*Apple App*" is preparing a new **15-inch MacBook Pro** with Haswell chip. The benchmark results do not indicate whether this is a model using a Retina display or a regular screen. However, it is possible that Apple will stop upgrading for regular screen models in order to "*Retina*" its products.

The **new 15-inch MacBook Pro** scored a Geekbench score of **12,497**. In addition to Haswell processor, the machine is also equipped with 16 GB RAM. This is a benchmark comparable to last year's Ivy Bridge chip model and is understandable because like the **MacBook Air 2013**, the biggest benefit Haswell has is its battery life, not performance. MacBook Air uses new chips for up to 12 hours of battery life, greatly increased compared to previous generations.

# AAPLJ45,1

Section	Description	Score	Geekbench Score
Integer	Processor integer performance	10322	12497
Floating Point	Processor floating point performance	19408	
Memory	Memory performance	7392	
Stream	Memory bandwidth performance	6136	

Geekbench 2.4.3 Tryout for Mac OS X x86 (32-bit)

## Result Information

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## System Information

AAPLJ45,1	
Operating System	Mac OS X 10.9 (Build 13A2052)
Model	AAPLJ45,1
Processor	Intel Core i7-4950HQ @ 2.40 GHz 1 processor, 4 cores, 8 threads
Processor ID	GenuineIntel Family 6 Model 70 Stepping 1
L1 Instruction Cache	32 KB x 4
L1 Data Cache	32 KB x 4
L2 Cache	256 KB x 4
L3 Cache	6144 KB
Motherboard	Apple Inc. Mac-3CBD00234E554E41 AAPLJ45,1
BIOS	Apple Inc. AAPLJ451.88Z.0105.B00.1306241039
Memory	16384 MB 1600 MHz DDR3

The chip model used on Apple's new laptop is the 2.4 GHz speedy Core i7-4950HQ with the high-end integrated Iris Pro 5200 graphics chip. Intel said the i7-4950Q's Iris 5200 graphics for 2 to 2 higher performance. 2.5 times the i7-3840QM HD Graphics 4000 used on current MacBook Pro Retina.

This opens up the possibility that Apple will no longer need an external graphics card (the 15-inch MacBook Pro Retina currently has Nvidia discrete graphics card) - probably in some models to increase the battery life of the device. Currently, the 15-inch MacBook Pro Retina gives 7 hours of battery life, and with Haswell chips this time is expected to increase, although the increase will be difficult to reach the 80% mark as with MacBook Air (due to screen usage High resolution Retina image).



2012 MacBook Pro Retina.

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