

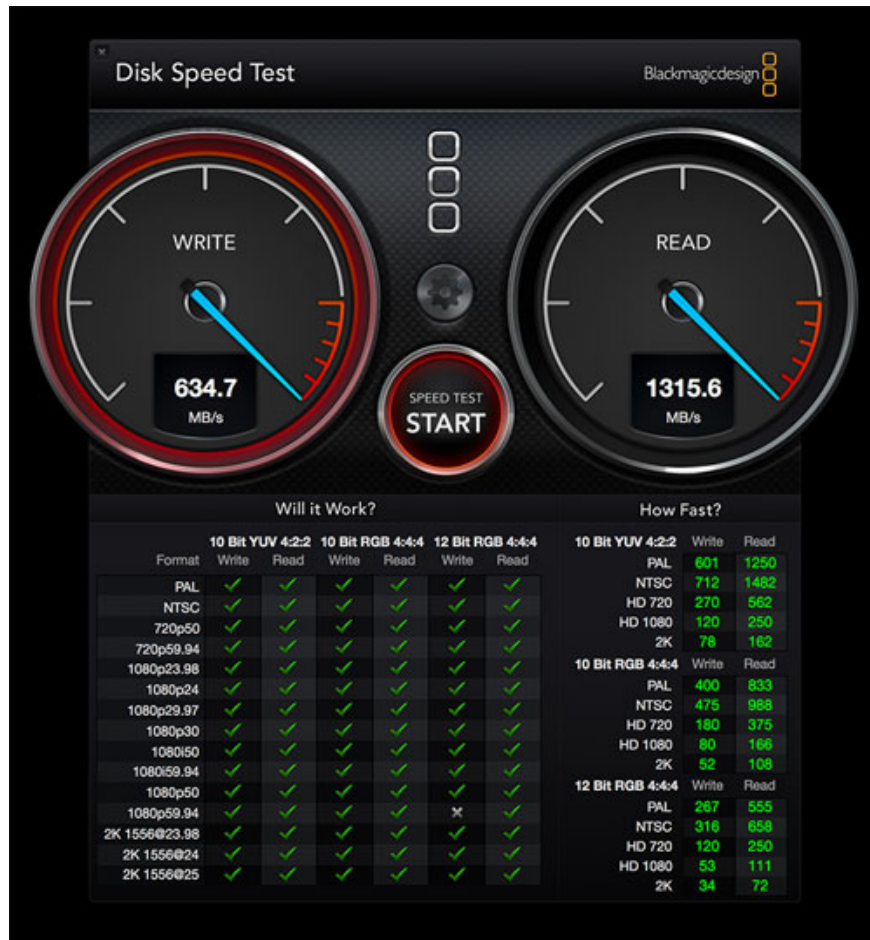
MacBook Pro 13 'Retina: Measuring file recording speed

Below are the measurement results: file copy speed, actual file copy time and benchmark of 64-bit system with Geekbench 3 software. In particular, the file recording speed of the device is impressive, up to 1300 MB / s for read and write speeds of over 600 MB / s, which is on par with the SSD specifications Apple announced for the new MacBook Air 13. Both the MBA and MBP are upgraded by the SSD and this is the main reason the machine can read and write so quickly

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Speed ??up SSD with Disk Speed ??Test



Runs many times and I randomly picked one of those results, namely:

1. File writing speed: **634.7 MB / s**
2. File read speed: **1,315.6 MB / s**

For reference, I also measured the SSD speed on my **MBP 15 "Retina 2012** and had much lower results:

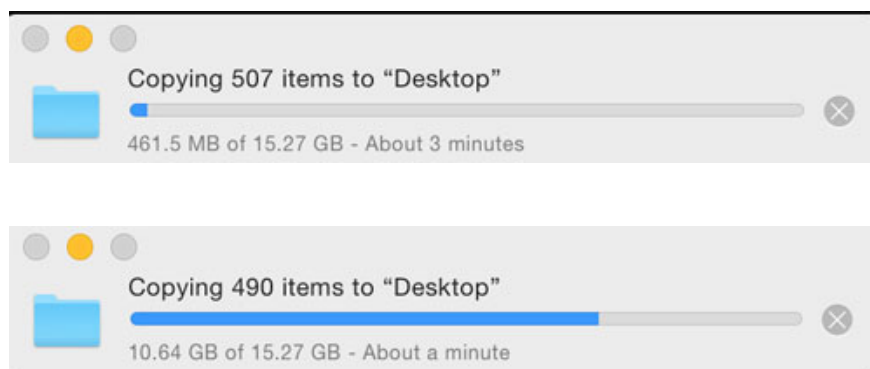
1. File writing speed: **371.2 MB / s**
2. File read speed: **419 MB / s**

To make it easier to imagine, you might think that you can copy a **700 MB** movie file from an external storage drive into MBP 13 "Retina in less than 3 seconds. Or copy the DVD file more than **4GB** from the computer. External drive for 5, 6 seconds Of course, it depends on the type of external drive you use, if you use an SSD, it will give you the best copy speed, while using USB stick, the speed will be reduced. down respectively.

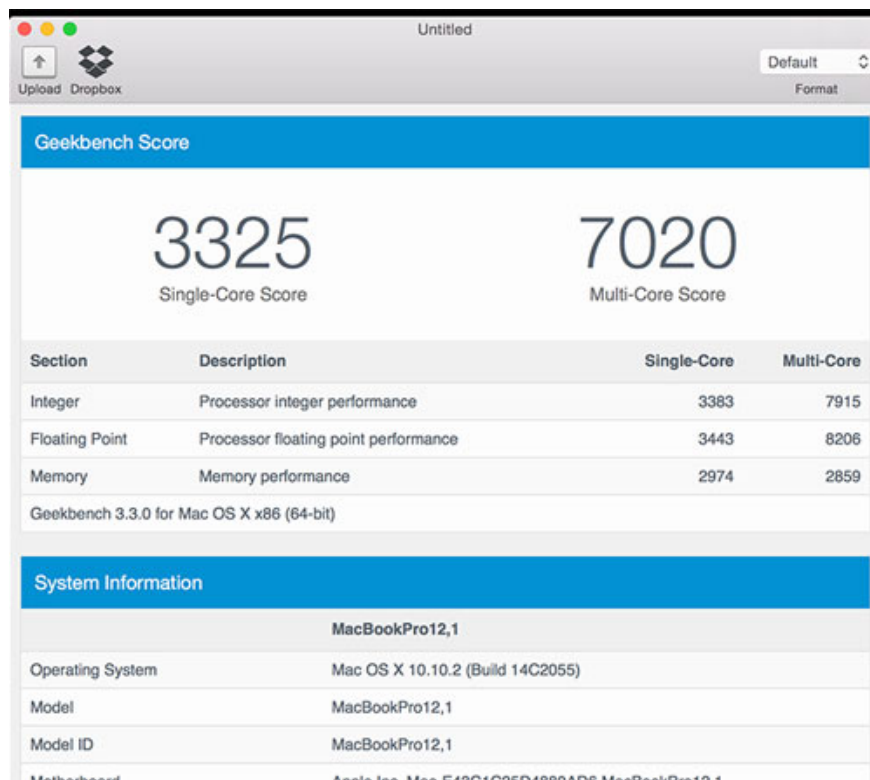
Actual file copy speed



I use USB 3.0 drive to copy a **15 GB** folder from there to the computer. The copy window on Mac tells the copy time to be about 3 minutes, the actual time that I clocked is 2 minutes 56 seconds. Just round up to 3 minutes, divide the copy speed to about **83 MB / s** . This speed is much lower than the above **634.7 MB / s**, but as I said, it depends on the type of drive you are attached to. To achieve the highest speed, you must use SSD on both inside and outside.












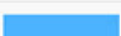





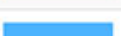





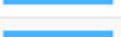

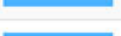


System Benchmarks (Geekbench 3, 64-bit)



Geekbench 3 is a simple, detailed and simple benchmark software for Mac computers (*and many other operating systems*). Single-core and multi-core scores (*measured on 64-bit platforms*) are **3325** and **7020** points. Its configuration is the standard (*lowest*) version using **2.7 GHz** Core i5-5257U CPU with **8 GB RAM** . See the comparison table with many other Macs below, the difference is not much (*the score is taken from the Geekbench results website*).

Mac mini (Late 2014) Intel Core i5-4308U 2800 MHz (2 cores)	3325	
MacBook Pro (Retina) Intel Core i7-3820QM 2700 MHz (4 cores)	3312	
MacBook Pro (15-inch Retina Early 2013) Intel Core i7-3740QM 2700 MHz (4 cores)	3310	
iMac (21.5-inch Late 2012) Intel Core i5-3470S 2900 MHz (4 cores)	3300	
MacBook Pro (13-inch Retina Early 2015) Intel Core i5-5257U 2700 MHz (2 cores)	3296	
MacBook Pro (13-inch Retina Late 2013) Intel Core i7-4558U 2800 MHz (2 cores)	3293	
iMac (27-inch Late 2012) Intel Core i5-3470 3200 MHz (4 cores)	3280	
iMac (27-inch Late 2012) Intel Core i5-3470S 2900 MHz (4 cores)	3278	
MacBook Pro (15-inch Mid 2012) Intel Core i7-3720QM 2600 MHz (4 cores)	3265	
Mac mini (Late 2012) Intel Core i7-3720QM 2600 MHz (4 cores)	3260	
MacBook Pro (13-inch Mid 2012) Intel Core i7-3520M 2900 MHz (2 cores)	3235	
MacBook Pro (Retina) Intel Core i7-3720QM 2600 MHz (4 cores)	3225	
MacBook Pro (13-inch Retina Mid 2014) Intel Core i5-4308U 2800 MHz (2 cores)	3215	

 MacBook Pro (13-inch Retina Mid 2014) Intel Core i7-4578U 3000 MHz (2 cores)	7191	
 Mac mini (Late 2014) Intel Core i7-4578U 3000 MHz (2 cores)	7119	
 Mac mini (Late 2014) Intel Core i5-4308U 2800 MHz (2 cores)	7054	
 MacBook Pro (13-inch Retina Early 2015) Intel Core i5-5257U 2700 MHz (2 cores)	6982	
 iMac (27-inch Mid 2010) Intel Core i5-760 2800 MHz (4 cores)	6943	
 MacBook Pro (13-inch Retina Late 2013) Intel Core i7-4558U 2800 MHz (2 cores)	6883	
 MacBook Pro (13-inch Retina Mid 2014) Intel Core i5-4308U 2800 MHz (2 cores)	6852	
 MacBook Pro (13-inch Mid 2012) Intel Core i7-3520M 2900 MHz (2 cores)	6749	
 MacBook Pro (13-inch Retina Early 2013) Intel Core i7-3540M 3000 MHz (2 cores)	6709	
 MacBook Pro (13-inch Retina) Intel Core i7-3520M 2900 MHz (2 cores)	6630	
 Mac mini (Late 2014) Intel Core i5-4278U 2600 MHz (2 cores)	6599	
 MacBook Pro (13-inch Retina Late 2013) Intel Core i5-4288U 2600 MHz (2 cores)	6589	
 MacBook Pro (13-inch Retina Mid 2014) Intel Core i5-4278U 2600 MHz (2 cores)	6562	

Multi-core Benchmark

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