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Mac Pro (Late 2019) vs iMacPro1,1

	Mac Pro (Late 2019)	iMacPro1,1
Single-Core Score	1032	435
Multi-Core Score	7619	2218
	Geekbench 5.3.1 Tryout	Geekbench 5.3.1 Tryout

System Information

	Mac Pro (Late 2019)	iMacPro1,1
Operating System	macOS 11.0.1 (Build 20B50)	macOS 10.14.6 (Build 18G103)
Model	Mac Pro (Late 2019)	iMacPro1,1
Processor	Intel Xeon W-3223 @ 3.50 GHz 1 processor, 8 cores, 16 threads	Intel Core 2 Duo P9xxx (Penryn Class Core 2) @ 2.00 GHz 1 processor, 8 cores
Processor ID	GenuineIntel Family 6 Model 85 Stepping 7	GenuineIntel Family 6 Model 23 Stepping 3
Processor Codename		
Processor Package		
L1 Instruction	32.0 KB x 8	32.0 KB x 8

Cache

L1 Data Cache	32.0 KB x 8	32.0 KB x 8
L2 Cache	1.00 MB x 8	4.00 MB x 8
L3 Cache	16.5 MB x 1	16.0 MB x 1
Motherboard	Apple Inc. Mac-27AD2F918AE68F61 MacPro7,1	Apple Inc. Mac-7BA5B2D9E42DDD94 iMacPro1,1
Northbridge		
Southbridge		
BIOS	Apple Inc. 1554.50.3.0.0 (iBridge: 18.16.12561.0.0,0)	Apple Inc. 15.16.6059.0.0,0
Memory	32.00 GB DDR4	8.00 GB DDR3

Single-Core Performance

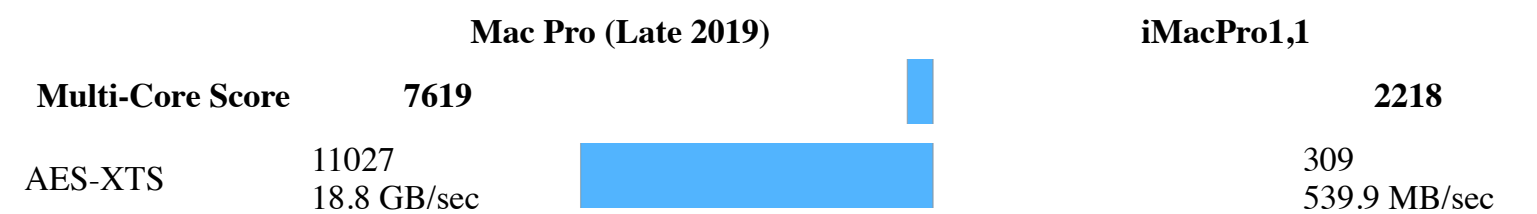
Mac Pro (Late 2019)

















iMacPro1,1



Single-Core Score	1032		435
AES-XTS	1492 2.54 GB/sec		50 87.4 MB/sec
Text Compression	1043 5.28 MB/sec		465 2.35 MB/sec
Image Compression	963 45.5 Mpixels/sec		488 23.1 Mpixels/sec
Navigation	851 2.40 MTE/sec		417 1.18 MTE/sec
HTML5	893 1.05 MElements/sec		338 396.5 KElements/sec
SQLite	921 288.7 Krows/sec		430 134.7 Krows/sec
PDF Rendering	897 48.7 Mpixels/sec		439 23.8 Mpixels/sec
Text Rendering	981 312.5 KB/sec		417 132.8 KB/sec
Clang	932 7.26 Klines/sec		410 3.20 Klines/sec
Camera	982		473 5.48



Multi-Core Performance



Text Compression	9327 47.2 MB/sec		2322 11.7 MB/sec
Image Compression	9070 429.1 Mpixels/sec		2973 140.6 Mpixels/sec
Navigation	5255 14.8 MTE/sec		1967 5.55 MTE/sec
HTML5	6542 7.68 MElements/sec		1693 1.99 MElements/sec
SQLite	6147 1.93 Mrows/sec		2004 627.9 Krows/sec
PDF Rendering	5008 271.8 Mpixels/sec		2112 114.6 Mpixels/sec
Text Rendering	6589 2.05 MB/sec		2069 659.1 KB/sec
Clang	6057 47.2 Klines/sec		2027 15.8 Klines/sec
Camera	7347 85.2 images/sec		2186 25.3 images/sec
N-Body Physics	7640 9.56 Mpairs/sec		2012 2.52 Mpairs/sec
Rigid Body Physics	13102 81169.5 FPS		3410 21126.8 FPS
Gaussian Blur	7874 432.8 Mpixels/sec		2527 138.9 Mpixels/sec
Face Detection	9772 75.2 images/sec		2937 22.6 images/sec
Horizon Detection	7946 195.9 Mpixels/sec		2521 62.1 Mpixels/sec
Image Inpainting	13262 650.6 Mpixels/sec		3897 191.2 Mpixels/sec
HDR	15133 206.2 Mpixels/sec		4913 66.9

Ray Tracing	13304		Mpixels/sec
	10.7 Mpixels/sec		3769
			3.03 Mpixels/sec
Structure from Motion	7300		1933
	65.4 Kpixels/sec		17.3
			Kpixels/sec
Speech Recognition	6208		2100
	198.5 Words/sec		67.1 Words/sec
Machine Learning	4790		1697
	185.1 images/sec		65.6
			images/sec

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