

SUMMARY: Comparing Video Compression Using Multiple Instances

Type of File	Computer	Single Instance (4 settings applied to 2 files)	Multiple Instances (4 settings applied to 2 files)	Single Instance (Single setting applied to 8 files)	Multiple Instances (Single setting applied to 8 files)
		<i>Time to compress</i>	<i>Time to compress</i>	<i>Time to compress</i>	<i>Time to compress</i>
XDCAM	MacPro	1h 2m 57s	42m 24s	1h 2m 48s	54m 32s
	iMac	22m 1s	1h 7m 13s	22m 13s	1h 15m 10s
	<i>iMac Speed Difference</i>	2.9	0.6	2.8	0.7
ProRes 422 HQ	MacPro	48m 34s	32m 7s	48m 27s	43m 35s
	iMac	23m 27s	55m 15s	23m 16s	1h 2m 38s
	<i>iMac Speed Difference</i>	2.1	0.6	2.1	0.7

MacPro: Compressor Instances

Type of File	File Size	TRT	Codec	Image Size	Single Instance (4 settings applied to 2 files)	Multiple Instances (4 settings applied to 2 files)	Single Instance (Single setting applied to 8 files)	Multiple Instances (Single setting applied to 8 files)	File Name
<i>MacPro</i>					<i>Time to compress</i>	<i>Time to compress</i>	<i>Time to compress</i>	<i>Time to compress</i>	
QuickTime Movie	2.33 GB	8m 58s	XDCAM EX	1280 x 720	1h 2m 57s	42m 24s	1h 2m 48s	54m 32s	2RG ep10
QuickTime Movie (internal drive)	14.87 GB	4m 45s	ProRes 422 HQ	1920 x 1080	48m 34s	32m 7s	48m 27s	43m 35s	Tour
			<i>Total Compression Time</i>		<i>111m 31s</i>	<i>71m 59s</i>	<i>111m 15s</i>	<i>72m 0s</i>	
			<i>Overlapping compression savings</i>		<i>0m 0s</i>	<i>-2m 32s</i>	<i>0m 0s</i>	<i>-26m 7s</i>	
			<i>Speed improvement using Multiple instances</i>			<i>35.5%</i>		<i>35.3%</i>	
MACPRO TESTING NOTES									
	* New Mac Pro, 3.0 GHz 8 core Xeon, 32 GB RAM, AMD D700 GPU — all source files stored on the internal SSD drive								
	* All files were stored on the internal SSD drive								
	• Settings used were YouTube defaults: HD1080, HD720, Large540, and SD 480.								
	* All files were scaled to the same compressed image size of 1280 x 720								
	* No other tasks were running during these compression tests, except for Numbers (to record results) and iTunes Radio (to keep me awake.)								
	* MacPro supports up to three instances of Compressor								

iMac: Compressor Instances

Type of File	File Size	TRT	Codec	Image Size	Single Instance (4 settings applied to 2 files)	Multiple Instances (4 settings applied to 2 files)	Single Instance (Single setting applied to 8 files)	Multiple Instances (Single setting applied to 8 files)	File Name
21" iMac					<i>Time to compress</i>	<i>Time to compress</i>	<i>Time to compress</i>	<i>Time to compress</i>	
QuickTime Movie	2.33 GB	8m 58s	XDCAM EX	1280 x 720	22m 1s	1h 7m 13s	22m 13s	1h 15m 10s	2RG ep10
QuickTime Movie (internal drive)	14.87 GB	4m 45s	ProRes 422 HQ	1920 x 1080	23m 27s	55m 15s	23m 16s	1h 2m 38s	Tour
<i>Total Compression Time</i>					<i>45m 28s</i>	<i>107m 0s</i>	<i>45m 29s</i>	<i>123m 0s</i>	
<i>Overlapping compression savings</i>					<i>0m 0s</i>	<i>-15m 28s</i>	<i>0m 0s</i>	<i>-14m 48s</i>	
<i>Speed slowdown using Multiple instances</i>						<i>2.4</i>		<i>2.7</i>	
IMAC TESTING NOTES									
* Late 2013 21" iMac, 3.1 GHz Intel Core i7, 16 GB RAM, NVIDIA GeForce GT750M GPU									
* All files were stored on the internal SSD drive									
• Settings used were YouTube defaults: HD1080, HD720, Large540, and SD 480.									
* All files were scaled to the same compressed image size of 1280 x 720									
* No other tasks were running during these compression tests, except for Numbers (to record results) and iTunes Radio (to keep me awake.)									
* The iMac supports one additional instance of Compressor									