

What to do	<div>The free utility "TechPowerUp GPU-Z" from https://www.techpowerup.com/downloads/SysInfo/GPU-Z/ is needed for one measurement.</div> <div>1. On the "Edit" tab, insert 10 of the PD default media "Kite Surfing.wmv" into the timeline. (If you don't load PD default media modify your PD pref to load. Pref > Project.)</div> <div>2. Hover over the H.265 profile below to see the settings. Then on PD's "Produce" tab, select the settings for that profile.</div> <div>3. Still in the "Produce" tab, set "Fast video rendering technology;" to enable "Hardware video encoder".</div> <div>4. Start the Produce operation.</div> <div>5. Monitor GPU load of the GTX960 with GPU-Z, under sensor tab, the "Video Engine Load".</div> <div>6. Monitor CPU and RAM usage during the encode processes with default windows Task Manager.</div> <div>7. When Produce operation is complete, get the "Time elapsed;" and "Produced" files size from the PD window.</div> <div>8. Repeat above steps from 2 but applying the H.264 profile.</div> <div>NOTE: 5 and 6 above are usually quite stable throughout the encoding process for this test provided you don't have significant "other" stuff running.</div>													
Enter your basic info in the blue section then, in the same column, your readings for each profile.														
CL Forum User	Eugen157	PepsiMan	PepsiMan	Julien Pierre	Julien Pierre	TonyL	TonyL	TonyL	PepsiMan	SoNic67	Iduguay	Graeme 1946	JethroXP	Grumpy
CPU	i7-920	FX8370E	FX8370E	FX-8350	i7-5820k	i7-920	Xeon W3690	Xeon W3690	FX8370E	Xeon X5650 (6 core, HT)	i7-3930K (6 core, HT)	i7-3930K (6 core, HT)	i7-5820K (6 core, HT)	i7-930 4 core, HT
CPU Clock	2.67GHz	3.8GHz	3.8GHz	OC 4.6GHz	OC 4.3 GHz	2.66GHz	3.47GHz	3.47GHz	3.8GHz	2.67GHz	4.17 Ghz	3.2Ghz	3.3GHz	2.8Ghz
GPU	GTX960	MSI GTX 960 2G	MSI GTX750Ti 2G	2GB GTX750Ti	4GB GTX960	2GB GTX960	2GB GTX960	2GB GTX960	MSI GTX 960 2G	GTX960 2GB	iTX 980Ti 6GB (SL	GTX 970 4 GB	GTX 970 4 GB	MSI GTX960 2GB 2GB
PD14 Version		14.0.2019.0	14.0.2019.0	14.0.2221.0	14.0.2221.0	14.0.2019.0	14.0.2019.0	14.0.2019.0	14.0.2019.0	14.0.2430.0	14.0.2302.0	14.0.2302.0	14.0.2302.0	14.0.2302.0
Nvidia Driver	353.62	347.25	347.25	358.5	358.87	358.5	358.5	358.5	358.5	361.43	361.43	361.43	361.75	361.91
OS		w7P 64	w7P 64	Win7	Win7	W7H 64	W7H 64	Win10H 64	w7P 64	W10P 64	W10P 64	W10P 64	W10P 64	W10P 64
Drive		HDD 7200rpm	HDD 7200rpm	SSD	SSD	HDD 7200rpm	HDD 7200rpm	SSD	HDD 7200rpm	RAID5 (LSI) SSD for OS/PD 15GB (triple ch)	SSD	SSD	SSD	SSD
RAM		16GB	16GB	32GB	32GB	12GB	12GB	12GB	16GB	32GB	32GB	16GB	32GB	24GB
Profile (Hover over)	H.265 [Sheet11B33]													
GPUVE Load (%)	80	53	0	0	98avg	53 avg	43 avg	36 avg	13 / 82	10/85	9/99	14/99	99	6%/11% 73%
CPU Load (%)	35	96	100	100	16	38	24	29	36	31	23	27	24	45-50 avg
Memory/RAM (GB)	6.3	5.3	6.1	8	5.8	5.6	5.8	3.8	5.3	5.6	6.5	4.7	5.8	6
Duration (mm:ss)	02:02	03:12	17:01	12:29	01:42	01:59	01:42	01:48	662MB VRAM 02:06	777MB VideoRAM 02:01	01:30	1.41	01:33	02:24
File Size (MB)	460	465	428	438	476	464	447	464	449	449	428	461.5	422	422.2
Profile (Hover over)	H.264 [Sheet11B45]													
GPUVE Load (%)	43	35	47	64	82avg	27 avg	38 avg	41 avg	12 / 40	10/55	11/62	57	74	6%/14% 75%
CPU Load (%)	39	89	98	35	25	37	24	29	35	31	30	26	31	45-50avg
Memory/RAM (GB)	4.6	4.5	5.5	6.5	5.8	5.4	5.7	3.8	4.3	5.5	6.5	6.1	5.8	6
Duration (mm:ss)	02:02	03:15	03:19	01:42	01:05	02:00	01:41	01:44	617MB VRAM 02:05	616M VideoRAM 01:55	01:15	1.31	01:07	02:24
File Size (MB)	626	614	614	625	627	613	609	611	611	611	591	579.7	591	591.1

[Sheet1!B33] Output format:

Standard 2D

H.265 HEVC

MKV

HEVC 4K

4096x2160/30p

(37 Mbps)

[Sheet1!B45] Output format:

Standard 2D

H.264 AVC

MP4

MPEG-4 4K

4096x2160/30p

(50 Mbps)