

In reference to: <http://forum.cyberlink.com/forum/posts/list/41925.page>

Here is a little more data on severity of the issue that may help CL. I had a little test routine that looks for anomalies between what you selected for PD to produce and what it actually did produce. I'm not a 2K/4K editor, so in the past I have only looked at formats that affected me. I modified the routine to dabble with 2K and 4K as source footage.

The source footage was simply the Boats.wmv and then produced in 5 different starting formats in a H.264 m2ts container to be placed in the timeline. This weeds out the camera format support issues, this is all just PD. With these produced videos as a timeline starting input, a variety of HA using Nvidia GPU and default PD output formats for H.264 m2ts container were tested, the chart below summarizes results. Each redline is what I see as an anomaly on my system. Additionally, after each red line when the users tries a different "Produce" format setting one gets the unusual "Production Unsuccessful" that Tony referred to and one needs to close and reopen PD to produce successfully again.

Basically I think it comes down to this.

- 1) If the timeline has 60p footage created within PD, then when using HA with Nvidia during "Produce" and producing to another 60p format of any frame size or bitrate using the canned profiles results in an anomaly.
- 2) If the timeline has 30p and/or 60i footage created within PD, then when using HA with Nvidia during "Produce" and producing to another 30p and/or 60i format of any frame size or bitrate using the canned profiles results in an anomaly.

Almost looks like PD is passing incorrect info to the Nvidia HA encoder? On my system the quantity of anomalies are rather astounding. I use HA a lot for initial 1920x1080 rendering for project screening and then always produce final output with CPU encoding because of these types of issues. PD just can't ever appear to get HA to be stable and correct, results often very different PD release to release, Nvidia driver to driver, one generation GPU to the next.

As tested platform configuration:

PD13 with 2408 patch

GTX650(Keppler) or GTX970(Maxwell) with Nvidia 344.75 driver produce the exact same "Produce" result anomalies.

Win7 64bit

Jeff

Table Summarizing Test and Results

Timeline Video	Produce	Result FPS	Result Frame Size	Result Video Mbps
AVC 4K 4096x2160/60p 50Mbps	AVC 4K 4096x2160/60p 50Mbps	50.94	1920x1080	43
	AVC 4K 4096x2160/30p 50Mbps	29.97	4096x2160	48
	AVC 4K 3840x2160/60p 50Mbps	50.94	1920x1080	43
	AVC 4K 3840x2160/30p 50Mbps	29.97	3840x2160	48
	AVC 2K 2048x1080/60p 40Mbps	50.94	1920x1080	38
	AVC 2K 2048x1080/30p 40Mbps	29.97	2048x1080	36
	AVC 1920x1080/60p 28Mbps	50.94	1920x1080	25
	AVC 1920x1080/60i 24Mbps	29.97	1920x1080	23
	AVC 1920x1080/60i 16Mbps	29.97	1920x1080	16
AVC 4K 4096x2160/30p 50Mbps	AVC 4K 4096x2160/60p 50Mbps	50.94	4096x2160	50
	AVC 4K 4096x2160/30p 50Mbps	29.97	1920x1080	33
	AVC 4K 3840x2160/60p 50Mbps	50.94	3840x2160	48
	AVC 4K 3840x2160/30p 50Mbps	29.97	1920x1080	33
	AVC 2K 2048x1080/60p 40Mbps	50.94	2048x1080	38
	AVC 2K 2048x1080/30p 40Mbps	29.97	1920x1080	32
	AVC 1920x1080/60p 28Mbps	50.94	1920x1080	25
	AVC 1920x1080/60i 24Mbps	29.97	1920x1080	22
	AVC 1920x1080/60i 16Mbps	29.97	1920x1080	16
AVC 2K 2048x1080/60p 40Mbps	AVC 4K 4096x2160/60p 50Mbps	50.94	1920x1080	46
	AVC 4K 4096x2160/30p 50Mbps	29.97	4096x2160	48
	AVC 4K 3840x2160/60p 50Mbps	50.94	1920x1080	46
	AVC 4K 3840x2160/30p 50Mbps	29.97	3840x2160	48
	AVC 2K 2048x1080/60p 40Mbps	50.94	1920x1080	38
	AVC 2K 2048x1080/30p 40Mbps	29.97	2048x1080	36
	AVC 1920x1080/60p 28Mbps	50.94	1920x1080	25
	AVC 1920x1080/60i 24Mbps	29.97	1920x1080	23
	AVC 1920x1080/60i 16Mbps	29.97	1920x1080	16
AVC 2K 2048x1080/30p 40Mbps	AVC 4K 4096x2160/60p 50Mbps	50.94	4096x2160	50
	AVC 4K 4096x2160/30p 50Mbps	29.97	1920x1080	36
	AVC 4K 3840x2160/60p 50Mbps	50.94	3840x2160	48
	AVC 4K 3840x2160/30p 50Mbps	29.97	1920x1080	36
	AVC 2K 2048x1080/60p 40Mbps	50.94	2048x1080	38
	AVC 2K 2048x1080/30p 40Mbps	29.97	1920x1080	35
	AVC 1920x1080/60p 28Mbps	50.94	1920x1080	25
	AVC 1920x1080/60i 24Mbps	29.97	1920x1080	23
	AVC 1920x1080/60i 16Mbps	29.97	1920x1080	16
AVC 1920x1080/60i 24Mbps	AVC 4K 4096x2160/60p 50Mbps	50.94	4096x2160	50
	AVC 4K 4096x2160/30p 50Mbps	29.97	1920x1080	32
	AVC 4K 3840x2160/60p 50Mbps	50.94	3840x2160	48
	AVC 4K 3840x2160/30p 50Mbps	29.97	1920x1080	32
	AVC 2K 2048x1080/60p 40Mbps	50.94	2048x1080	38
	AVC 2K 2048x1080/30p 40Mbps	29.97	1920x1080	32
	AVC 1920x1080/60p 28Mbps	50.94	1920x1080	25
	AVC 1920x1080/60i 24Mbps	29.97	1920x1080	22
	AVC 1920x1080/60i 16Mbps	29.97	1920x1080	16