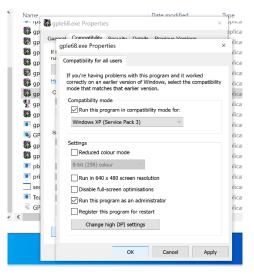
NVIDIA Profiler – Hints and Tips

4K Displays

If you get the quarter screen issue (with 4K display) you need to override high DPI scaling:

 gplc65.exe gplc66.exe gplc67 - V1 gplc67.exe gplc62.exe 	Cut Copy Create shortcut Delete Rename	
gplcgt.exe gple68.exe	Properties	
🖞 gplinspect.exe		18/04/2007 20:16
gplinspector.cl	hm	18/04/2007 20:16

Set program to run in Windows XP SP3 compatibility mode:



Tick the DPI override box:

gple68.exe Properties	×
Choose the high DPI settings for this program.	
Program DPI	
Use this setting to fix scaling problems for this program instead of the one in Settings Open Advanced scaling settings	
A program might look blurry if the DPI for your main display changes after you sign in to Windows. Windows can try to fix this scaling problem for this program by using the DPI that set for your main display when you open this program.	
Use the DPI that's set for my main display when	
I signed in to Windows	
Learn more	
High DPI scaling override	
Override high DPI scaling behaviour. Scaling performed by:	
Application \vee	
OK Cancel	

Creating Profiles for each GPL Executable

You need to set 3D graphics options for each executable. RH mouse click on desktop:



The NVIDIA Control Panel should appear:

ile Edit Desktop <u>3</u> D Settings <u>H</u> elp					
Back 🔻 🖸 😚					
Adjust image settings with preview Adjust image settings Configure Surround, PhysX Oisplay Change resolution Adjust desktop colour settings Rotate display View HOCP status Set Up Digital Audio Adjust edsktop size and position Set up multiple displays Oeleoper Manage GPU Performance Counters Video Adjust video colour settings Adjust video image settings	Anage 3D Settings You can change the global 3D settings and create of time the specified programs are launched.	overrides for specific programs. The		tore Def aused au	
	I would like to use the following 3D setting Global Settings Program Settings	s:			
	Settings: Feature Image Scaling Amibient Occlusion Ansiotropic filtering Antialiasing - FXAA Antialiasing - Setting Antialiasing - Setting Antialiasing - Setting Antialiasing - Transparency Background Application Max Frame Rate CUDA - GPUs DSR - Factors DSR - Factors DSR - Factors Low Latency Mode Math-Frame Sampled AA (MFAA) OpenGL GD1 compatibility	Setting Off Off Application-controlled Off Application-controlled Application-controlled Off All Off Off Off Off Off Off Off Off Off Auto		~	
			 Restore 		

Click on the "Program Settings" tab and select the gplc55.exe from the drop down list.

		×
File Edit Desktop 3D Settings Help		
🕲 Back 🔻 😂 🔞		
aD Settings Adust image settings with prevent	store De e used a	

Now select graphics options for the GPL executable. These are dependent on your graphics card so you may need to experiment. Once you have decided on the optimum settings, set the same options for each executable. For example these settings work for the NVIDIA GeForce GTX 1060 6GB card:

lobal Settings	Program Settings			
1. Select a pro	gram to customise:			
c:\sierra\gpl\	gplc55.exe (c:/sierra/g 🗸	Add	Remove	Restore
Show only	programs found on this com	puter		
_	settings for this program:			
Feature		Setting		^
Image Scaling		Use global se	ettina	
Ambient Occl		7	ed for this applicati	on
Anisotropic fil		16x	in the application	
Antialiasing -		Off		
	Gamma correction	Off		
Antialiasing -	Mode	Enhance th	e application set	ting
Antialiasing -	Setting	8x		
Antialiasing -	Transparency	Off		
Background A	pplication Max Frame Rate	Off		
CUDA - GPUs		Use global se	etting (All)	
Low Latency	Mode	Off		
		Off		
Max Frame R	ate	Off		

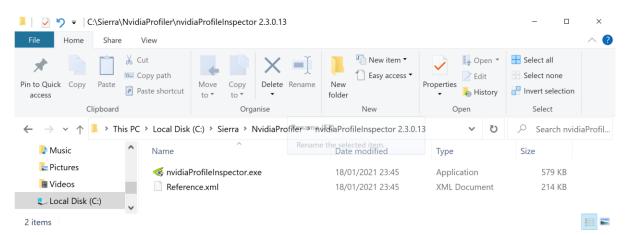
Global Settings Program Settings				
1. Select a program to customise:				
■c:\sierra\gpl\gplc55.exe (c:/sierra/g ∨	Add	Remove	Restore	
Show only programs found on this compute	r			
2. Specify the settings for this program:				
Feature	Setting			^
Multi-Frame Sampled AA (MFAA)	Off			
OpenGL GDI compatibility	Use global sett	ing (Auto)		
OpenGL rendering GPU	NVIDIA GeFo	rce GTX 1060 6	GB	
Power management mode	Prefer maxim	num performan	ce	
Texture filtering - Anisotropic sample optimi	Off			
Texture filtering - Negative LOD bias	Allow			
Texture filtering - Quality	Quality			
Texture filtering - Trilinear optimisation	On			
Threaded optimisation	Off			
Triple buffering	Off			
	0			
Vertical sync	On			
Vertical sync Virtual Reality pre-rendered frames	0n 1			

Using the 3rd Party Profile Inspector

Download the NVIDIA Profiler (version 2.3.0.13) from:

https://nvidiaprofileinspector.com/nvidia-profile-inspector-2-3-0-13download/#Features_of_Nvidia_Profile_Inspector_23013

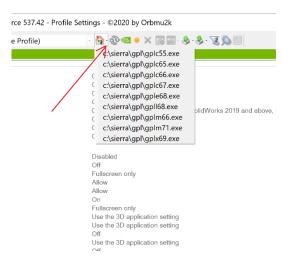
Unzip the Profile Inspector and save it to a suitable directory. In this case the directory C:\Sierra\NvidiaProfiler\nvidiaProfileInspector 2.3.0.13 has been used.



Double click on the file nvidiaProfileInspector.exe to run it.

The window should look like this:

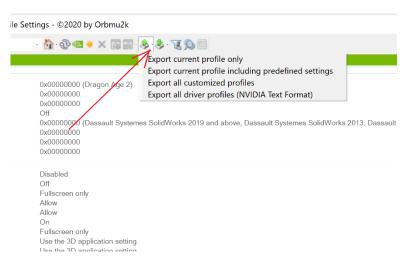
ofiles: GLOBAL DRIVER PROFILE (Base Profile)	👌 🕸 🥶 🛊 🗙 📷 🧶 🧶 🕱 🚳 📖	📀 Apr	oly change
		• API	ny change
- Compatibility			
mbient Occlusion compatibility	0x0000000 (Dragon Age 2)	0x00000000	
ntialiasing compatibility	0x0000000	0x00000000	
ntialiasing compatibility (DX1x)	0x0000000	0x00000000	
ntialiasing fix	Off	0x00000001	
I compatibility bits	0x00000000 (Dassault Systemes SolidWorks 2019 and above, Dassault Systemes SolidWorks 2013, Dassault	0x00000000	
l compatibility bits (DX10 + DX11)	0x0000000	0x00000000	
l compatibility bits (DX12)	0x0000000	0x00000000	
l compatibility bits (OGL)	0x0000000	0x00000000	
Svnc and Refresh			
p Indicator	Disabled	0x00000000	
ame Rate Limiter V3	Off	0x00000000	
SYNC - Application Mode	Fullscreen only	0x00000001	
SYNC - Application Requested State	Allow	0x00000000	
SYNC - Application State	Allow	0x00000000	
SYNC - Global Feature	On	0x00000001	
SYNC - Global Mode	Fullscreen only	0x00000001	
aximum pre-rendered frames	Use the 3D application setting	0x00000000	
efered Refreshrate	Use the 3D application setting	0x00000000	
iple buffering	Off	0x00000000	
ertical Sync	Use the 3D application setting	0x60925292	
ertical Sync Smooth AFR behavior	Off	0x00000000	
ertical Sync Tear Control	Standard	0x96861077	
Antialiasing			
ntialiasing - Behavior Flags	None	0x00000000	
ntialiasing - Gamma correction	On	0x0000002	
itialiasing - Line gamma	Default	0x00000010	
ntialiasing - Mode	Application-controlled	0x00000000	
itialiasing - Setting	Application-controlled / Off	0x00000000	
ntialiasing - Transparency Multisampling	Disabled	0x00000000	
ntialiasing - Transparency Supersampling	Off / Multisampling	0x00000000	
able Maxwell sample interleaving (MFAA)	Off	0x00000000	
/IDIA Predefined FXAA Usage	Allowed	0x00000001	
agle FXAA Indicator on or off	Off	0x00000000	
ogle FXAA on or off	Off	0x00000000	
Texture Filtering			
nicotronic filtorina modo	Application controlled	0~0000000	



To open a custom profile, click on the down arrow next to the Home icon:

All the custom profiles created with the NVIDIA Control Panel should be listed.

To export a profile, click on the down arrow next to the Export icon. A list of options becomes available:



To import a profile, click on the down arrow next to the Import icon. A list of options becomes available:

Settings - ©2020 by Orbmu2k
🚯 🐼 🗠 🗶 📷 😓 😓 👿 🚳 📾
mport profile(s)
Import (replace) all driver profiles (NVIDIA Text Format)
0x00000000 (Dragon Age 2)
0x0000000
0x0000000
Off
0x00000000 (Dassault Systemes SolidWorks 2019 and above, Dassault Systemes SolidWorks 2013, Dassault
0x0000000
0x0000000
0x0000000
Disabled
Off
- ·· ·

To export the 55GP profile:

Select the 55GP profile

≪ NVIDIA Profile Inspector 2.3.0.13 - Geforce 537.42 - Profile Settings - ©2020 by Orbmu2k

Profiles: _GLOBAL_DRIVER_PROFILE (Base Profile)	👌 🗞 🥶 🗶 🔝 🖬 🕹 🕉 📆 🕵 📰
	c:\sierra\gpl\gplc55.exe
1 - Compatibility	c:\sierra\gpl\gplc65.exe
Ambient Occlusion compatibility	c c:\sierra\gpl\gplc66.exe
Antialiasing compatibility	^C c:\sierra\gpl\gplc67.exe
 Antialiasing compatibility (DX1x) 	c:\sierra\gple68.exe
Antialiasing fix	c:\sierra\gnl\gnll68 eye
 SLI compatibility bits 	
 SLI compatibility bits (DX10 + DX11) 	c:\sierra\gpl\gplm66.exe
 SLI compatibility bits (DX12) 	c:\sierra\gpl\gplm71.exe
 SLI compatibility bits (OGL) 	^C c:\sierra\gpl\gplx69.exe
2 - Sync and Refresh	
Flip Indicator	Disabled
Frame Rate Limiter V3	Off

Then export current profile:

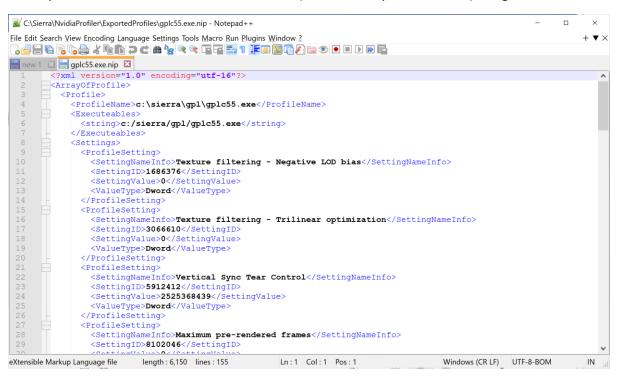
≪ NVIDIA Profile Inspector 2.3.0.13 - Geforce 537.42 - Profile Settings - ©2020 by Orbmu2k

c:/sierra/gpl/gplc55.exe		Export current profile only
1 - Compatibility		Export current profile including predefined settings
Ambient Occlusion compatibility	0x00000000 (Dragon Age 2)	Export all customized profiles
Antialiasing compatibility	0x0000000	Export all driver profiles (NVIDIA Text Format)
Antialiasing compatibility (DX1x)	0x0000000	
Antialiasing fix	Off	
SLI compatibility bits	0x00000000 (Dassault System	es SolidWorks 2019 and above, Dassault Systemes SolidWorks
SLI compatibility bits (DX10 + DX11)	0x00000000	
OLL	00000000	

Give the .nip file a name and save it to a suitable area on the disk drive:

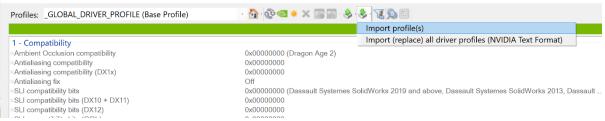
📕 🛃 🏷 = C	:\Sierra\NvidiaProfiler\Exp	ortedProfiles			- 🗆 ×
File Home	Share View				~ ?
Pin to Quick Copy access	Paste X Cut Value Copy path Paste Paste shortcut	Move Copy to* to*	New item •	Properties	Select all Select none Invert selection
C	lipboard	Organise	New	Open	Select
\leftarrow \rightarrow \checkmark \uparrow	📕 🔹 This PC 🎽 Local Disk	(C:) > Sierra > NvidiaProfiler > Ex	<pre>cportedProfiles</pre>	✓ Ŭ >	Search ExportedPr
🕽 Music	^ Name	^	Date modified	Туре	Size
늘 Pictures 📑 Videos	gplc55	.exe.nip	04/10/2023 23:09	NIP File	7 KB
😍 Local Disk (C:)				
1 item					

The .nip file is in XML format so it can be viewed (and edited if you are careful) using a text editor:



To import a profile select the Import Profile(s) option:

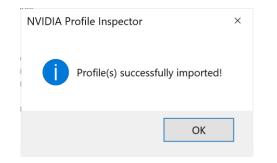
≪NVIDIA Profile Inspector 2.3.0.13 - Geforce 537.42 - Profile Settings - ©2020 by Orbmu2k



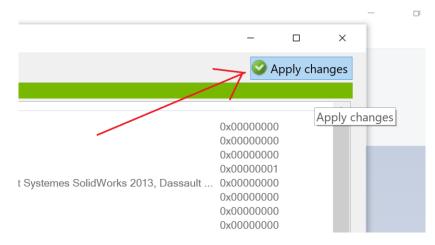
Navigate to the .nip file you want to import:

< Open						×
← → × ↑ 🖡 Sier	ra > NvidiaProfiler > ExportedProfiles	~	Ü	Search Export	edProfiles	م
Organise · New folder					· .	?
👎 Downloads 🔷	Name	Da	te mo	dified	Туре	
🕽 Music	gplc55.exe.nip	04,	/10/20	23 23:09	NIP File	
arright Pictures						
📕 Videos						
Local Disk (C:)	<					>
File <u>n</u> ar	me: gplc55.exe.nip		~	NVIDIA Profile	Inspector Prof	ile: 🗸
				<u>O</u> pen	Cance	el

If successful, the following prompt will be displayed:



Finally, to save the changes click on the Apply Changes icon.



Note: if you are importing a profile that has been created on a non-default GPL installation. For example, on the D drive i.e. d:\sierra\gpl\gplc55.exe, the ProfileName and Executables path in the XML file will need to be edited to be consistent with the target installation:

C:\Sierra\NvidiaProfiler\ExportedProfiles\gplc55.exe.nip - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

