



GeForce RTX

Justin Walker | CES Editor's Day 2025 Session 6

GeForce RTX 50 Series Desktop Family



GeForce RTX 5090

GeForce RTX 5080

GeForce RTX 5070 Ti

GeForce RTX 5070

GeForce RTX 5090



4K 240Hz
Path Tracing

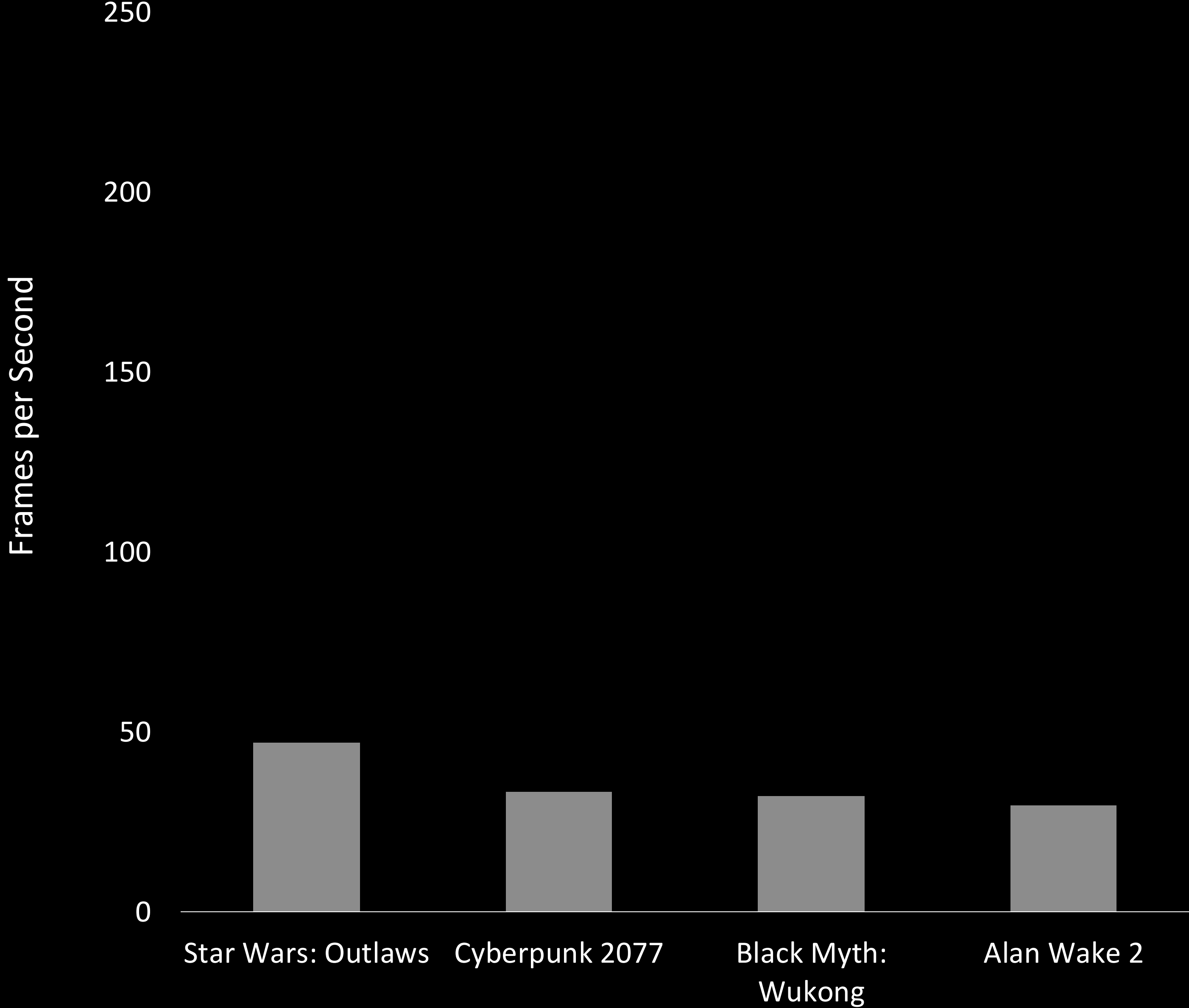
Neural
Rendering
with DLSS 4

3352 AI TOPS
318 RT TFLOPS
105 Shader TFLOPS

32GB
G7

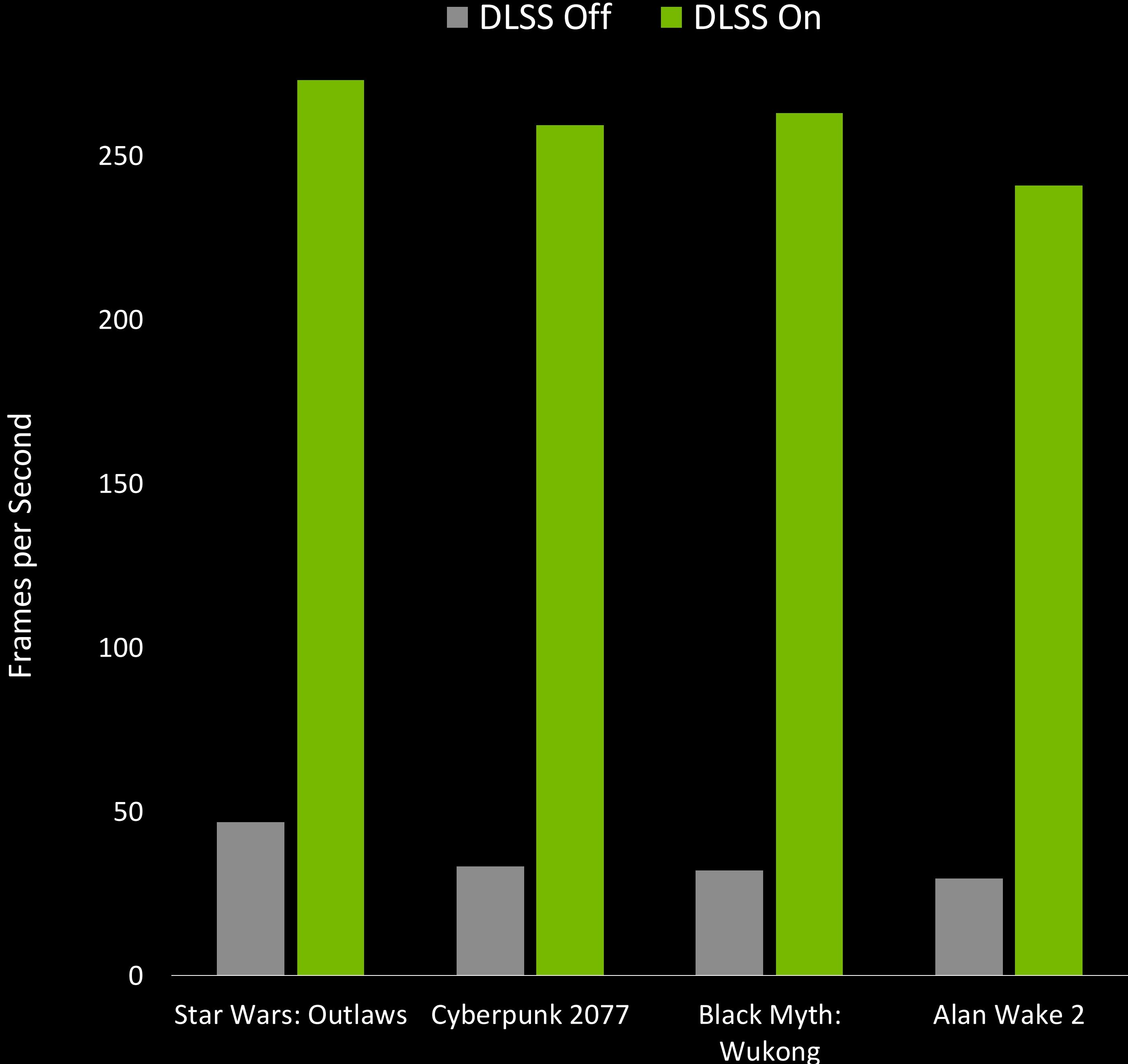
512b
Memory
Interface

GeForce RTX 5090

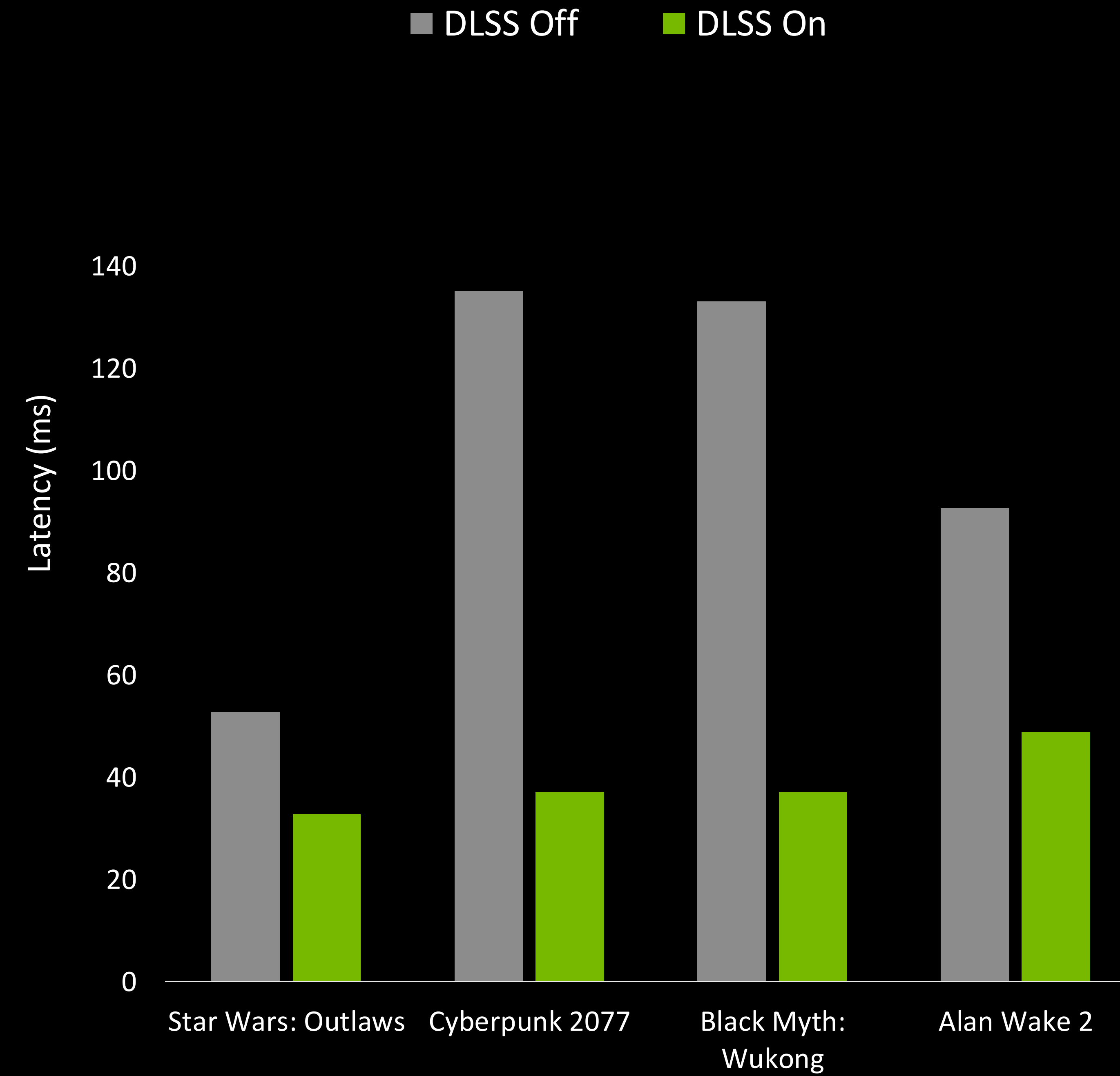
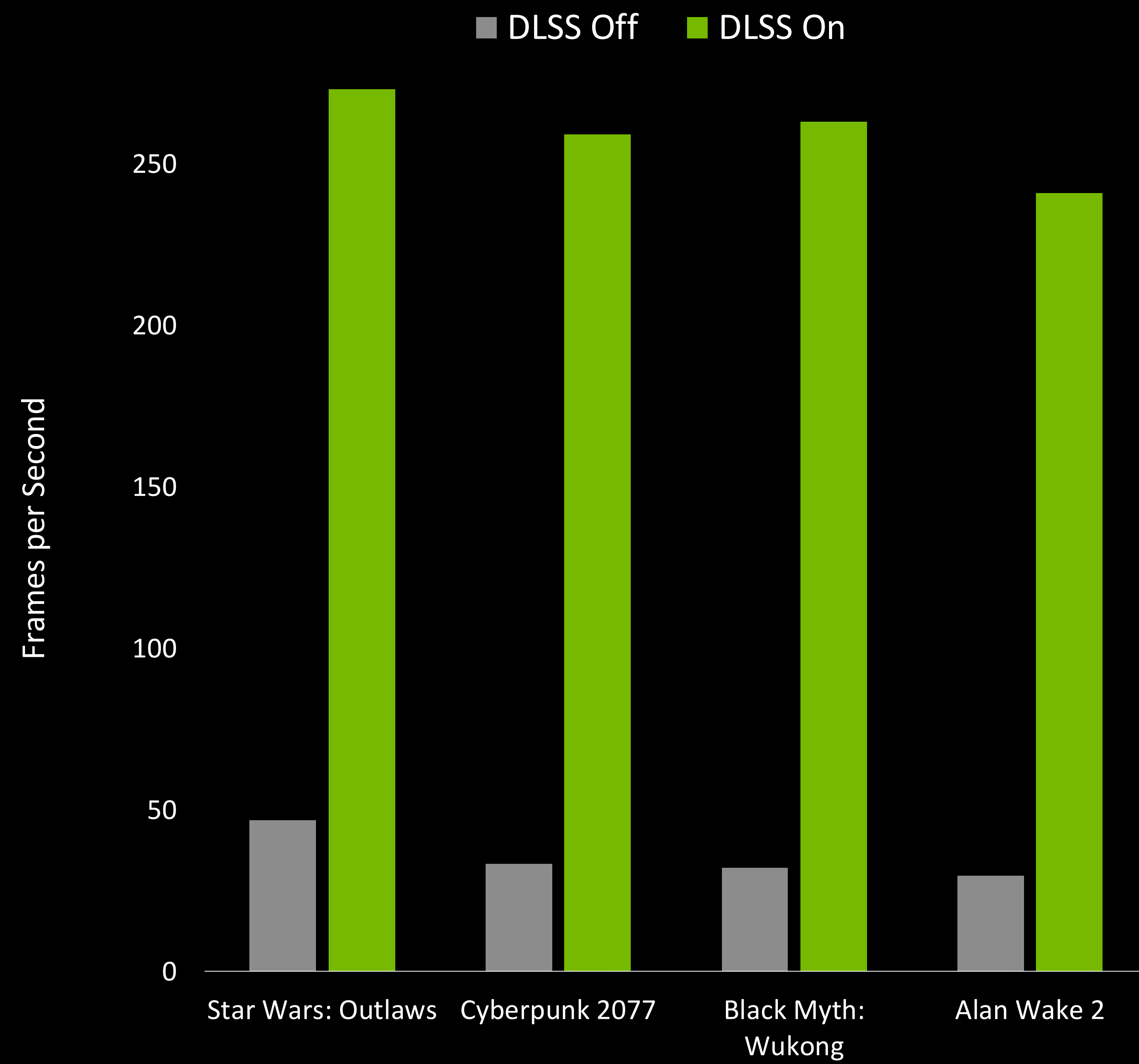


4k, Max Settings,

GeForce RTX 5090

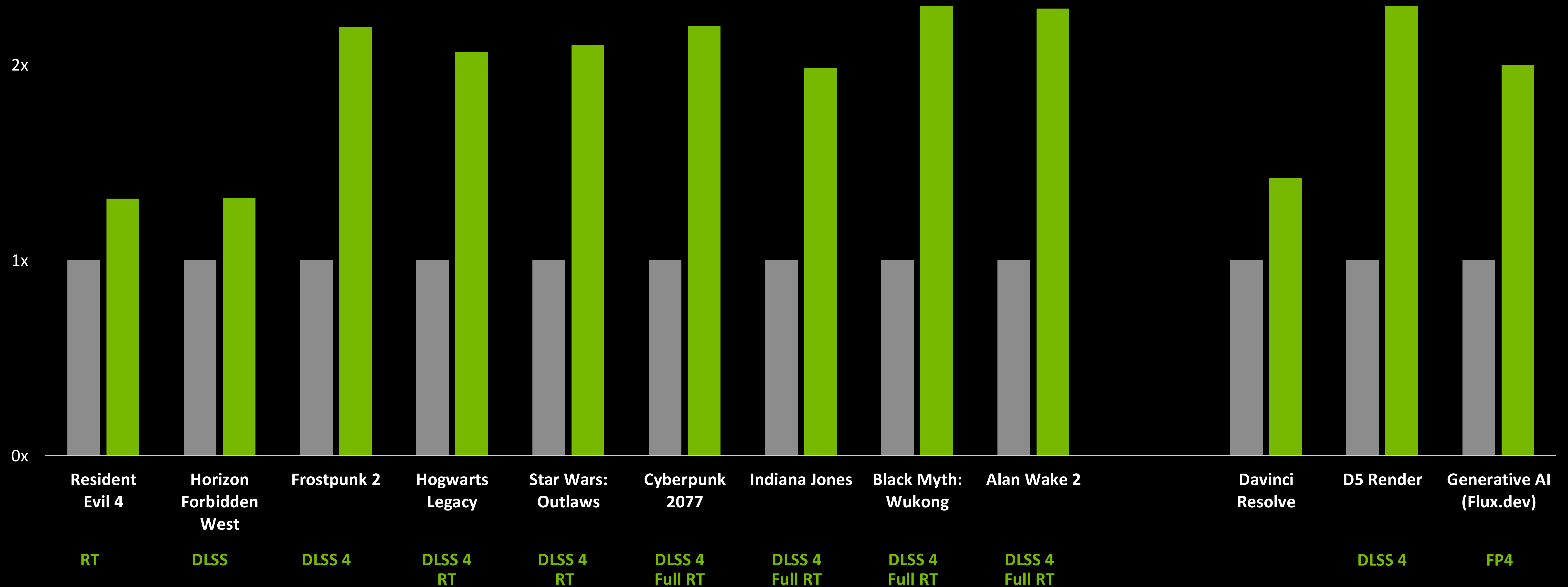


GeForce RTX 5090



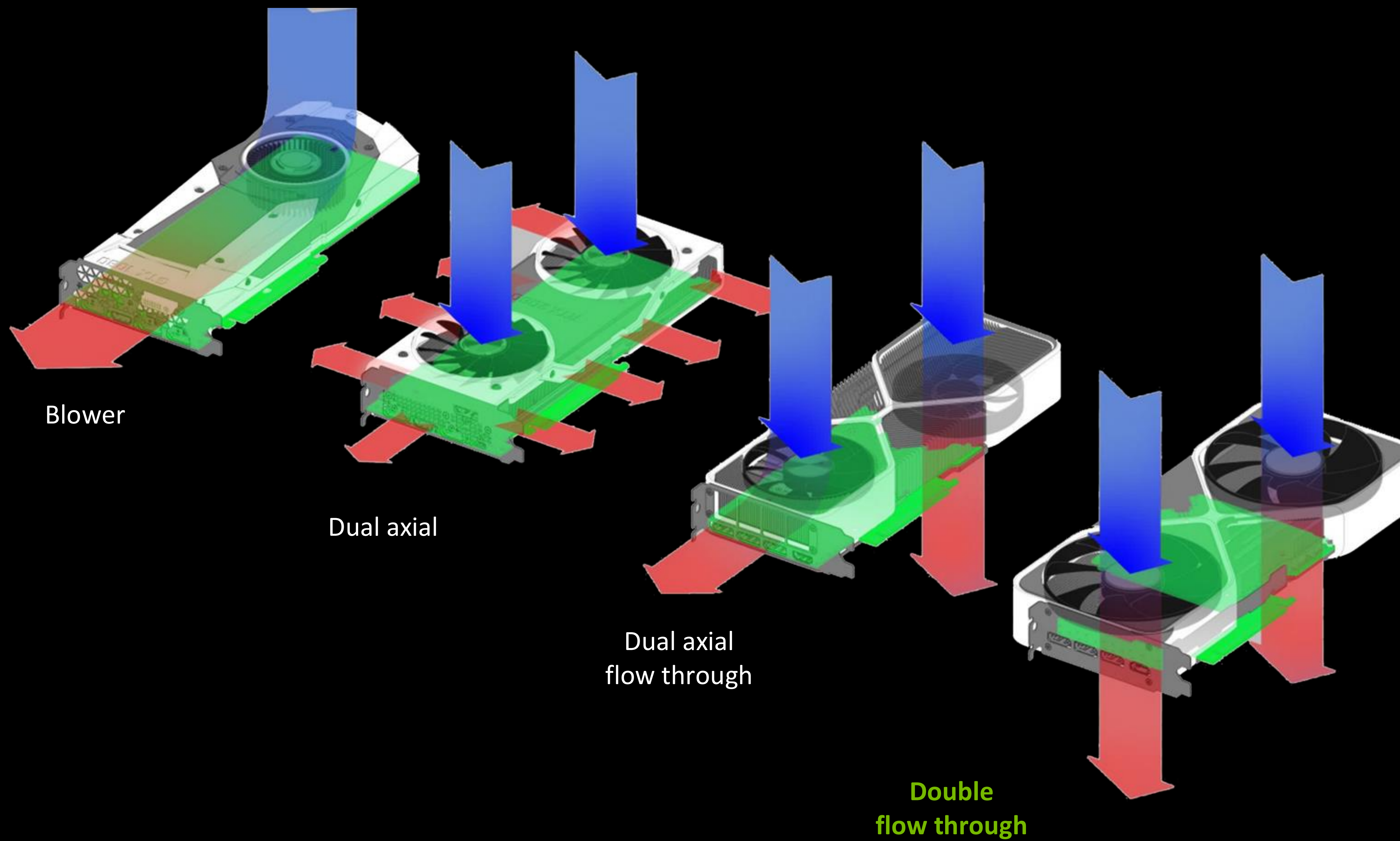
GeForce RTX 5090

■ RTX 5090 ■ RTX 4090

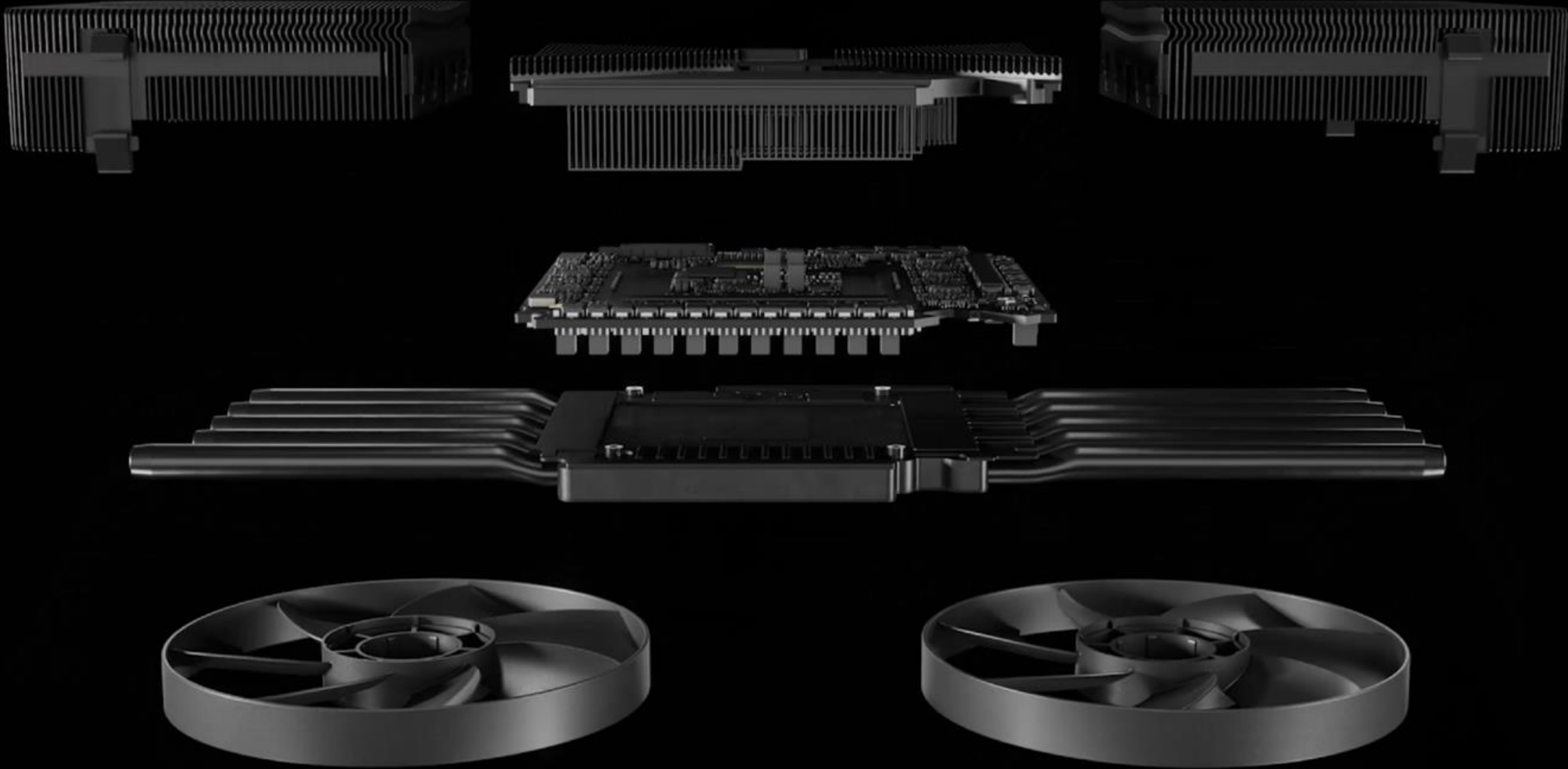


4k, Max Settings, DLSS Super Resolution and DLSS Ray Reconstruction on 40 and 50 series;
Frame gen on 40 Series. Multi Frame Gen (4x Mode) on 50 Series. Horizon Forbidden West supports DLSS 3.

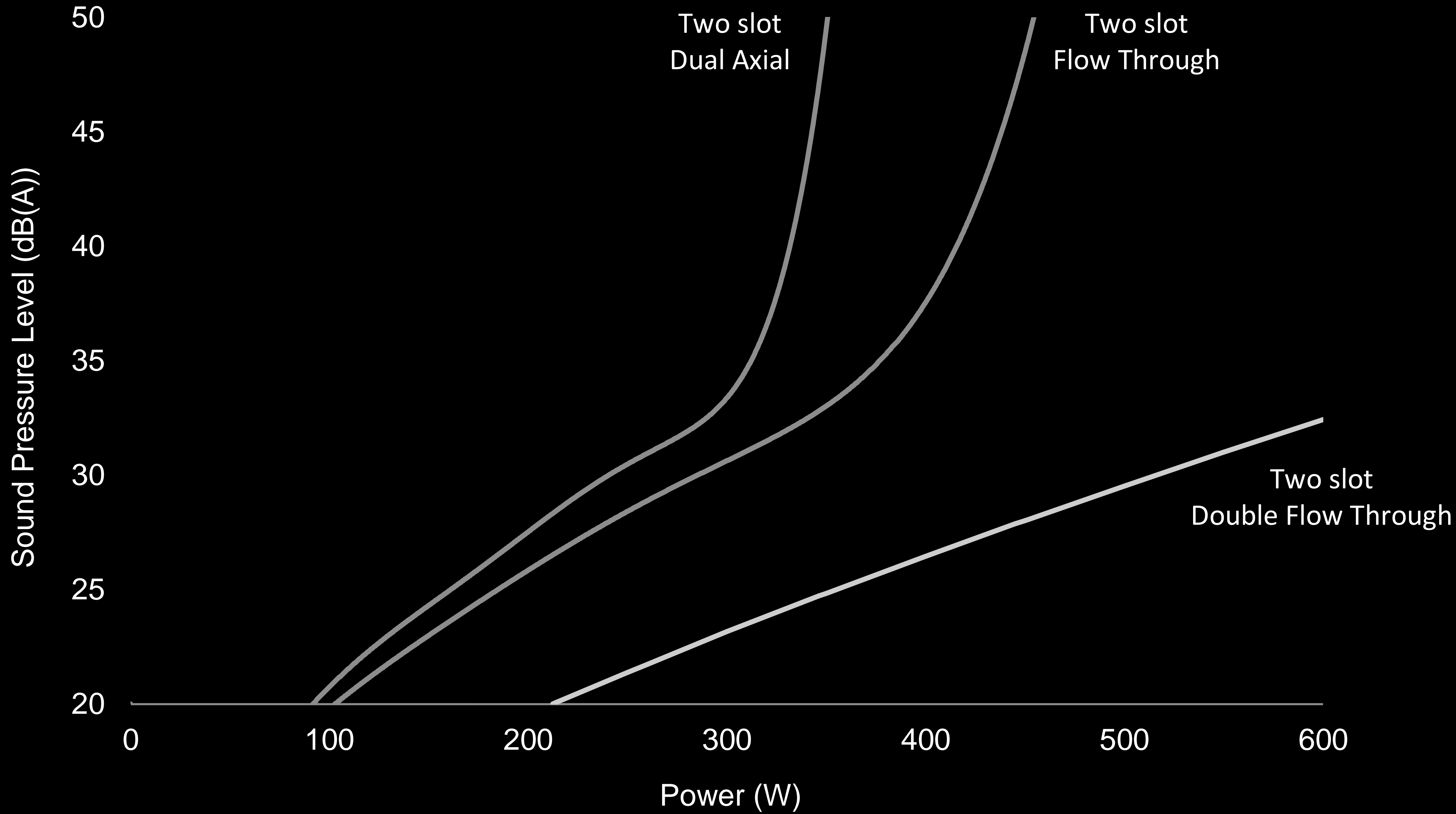
Next Generation Thermal Design



Double Flow Through Thermal Design



Enables High Performance in a Small Form Factor



GeForce RTX 5080



2X
RTX 4080

Neural
Rendering
with DLSS 4

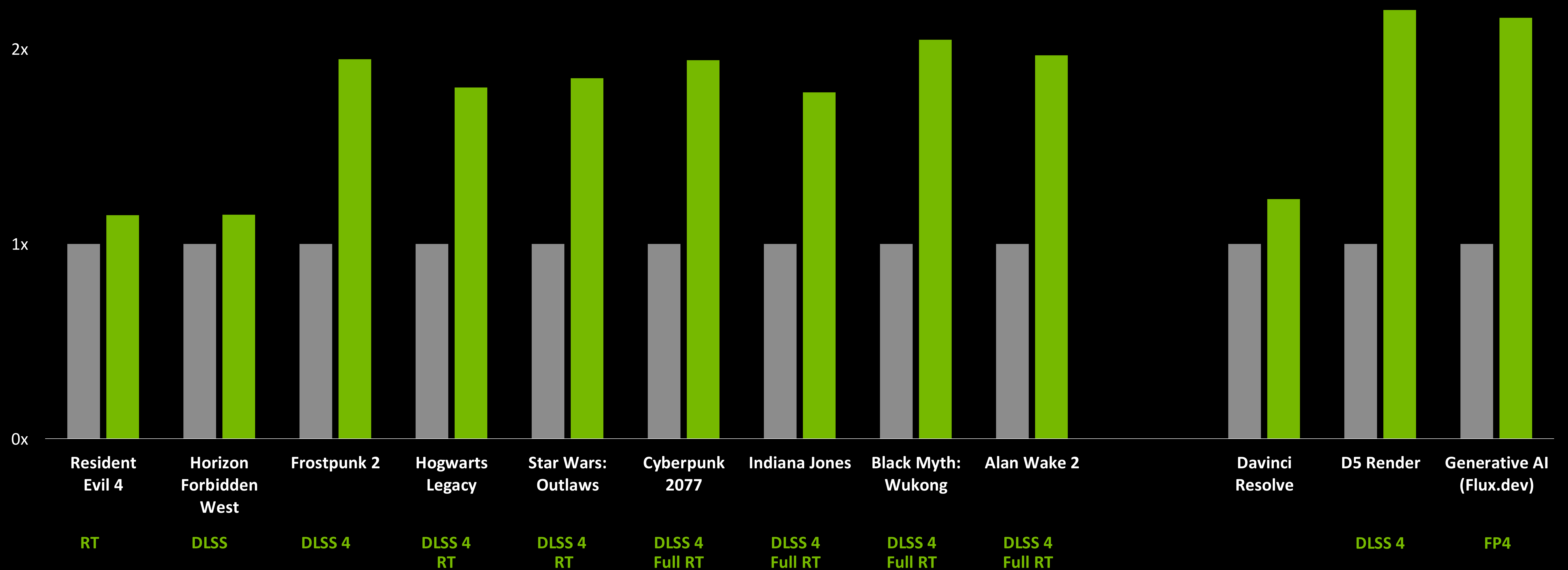
1,800 AI TOPS
171 RT TFLOPS
56 Shader TFLOPS

16 GB
G7

30 Gbps
Memory
Speed

GeForce RTX 5080

■ RTX 5080 ■ RTX 4080



4k, Max Settings, DLSS Super Resolution and DLSS Ray Reconstruction on 40 and 50 series;
Frame gen on 40 Series. Multi Frame Gen (4x Mode) on 50 Series. Horizon Forbidden West supports DLSS 3.

GeForce RTX 5070 Ti



2X
RTX 4070 Ti

Neural
Rendering
with **DLSS 4**

1,406 AI TOPS
133 RT TFLOPS
44 Shader TFLOPS

16 GB
G7

GeForce RTX 5070 Ti

■ RTX 5070 Ti ■ RTX 4070 Ti



1440p, Max Settings, DLSS Super Resolution and DLSS Ray Reconstruction on 40 and 50 series; Frame gen on 40 Series. Multi Frame Gen (4x Mode) on 50 Series. Horizon Forbidden West supports DLSS 3.

GeForce RTX 5070



2X
RTX 4070

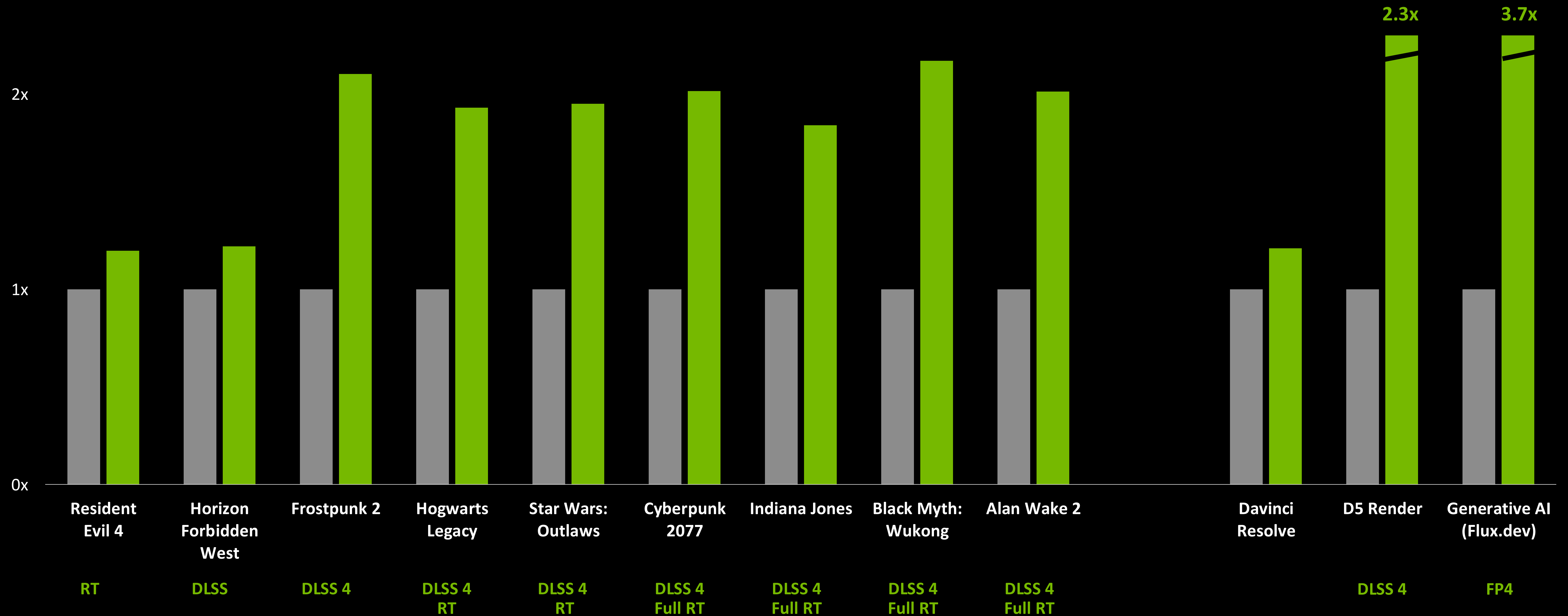
Neural
Rendering
with DLSS 4

988 AI TOPS
94 RT TFLOPS
31 Shader TFLOPS

12 GB
G7

GeForce RTX 5070

■ RTX 5070 ■ RTX 4070



1440p, Max Settings, DLSS Super Resolution and DLSS Ray Reconstruction on 40 and 50 series;
Frame gen on 40 Series. Multi Frame Gen (4x Mode) on 50 Series. Horizon Forbidden West supports DLSS 3.

RTX 4090

RTX 5070

DLSS 3

DLSS 4



GeForce RTX 50 Series – Most Advanced GPUs Ever Made



	30-Series	40-Series	50-Series
Shader Cores	Ampere SM	Ada SM	Blackwell SM Built for Neural Shaders
RT Cores	2 nd Gen	3 rd Gen	4 th Gen Built for Mega Geo
Tensor Cores	3 rd Gen FP16	4 th Gen FP8/FP16	5 th Gen FP4/FP8/FP16
DLSS	2	3.5	4
AMP Processor	-	-	Yes
NV Encoders	1X 7 th Gen	2X 8 th Gen	Up to 3X 9 th Gen
NV Decoders	1X 5 th Gen	1X 5 th Gen	Up to 2X 6 th Gen
Memory Subsystem	G6/G6X	G6/G6X	G7
PCI Express	Gen 4	Gen 4	Gen 5
DisplayPort	1.4a	1.4a	2.1b Up to UHBR20

GeForce RTX 50 Series Desktop Family



GeForce RTX 5090

\$1,999

Founder's edition / custom partner boards

January 30th

GeForce RTX 5080

\$999

Founder's edition / custom partner boards

January 30th

GeForce RTX 5070 Ti

\$749

Custom partner boards

February

GeForce RTX 5070

\$549

Founder's edition / custom partner boards

February



GeForce RTX Laptops

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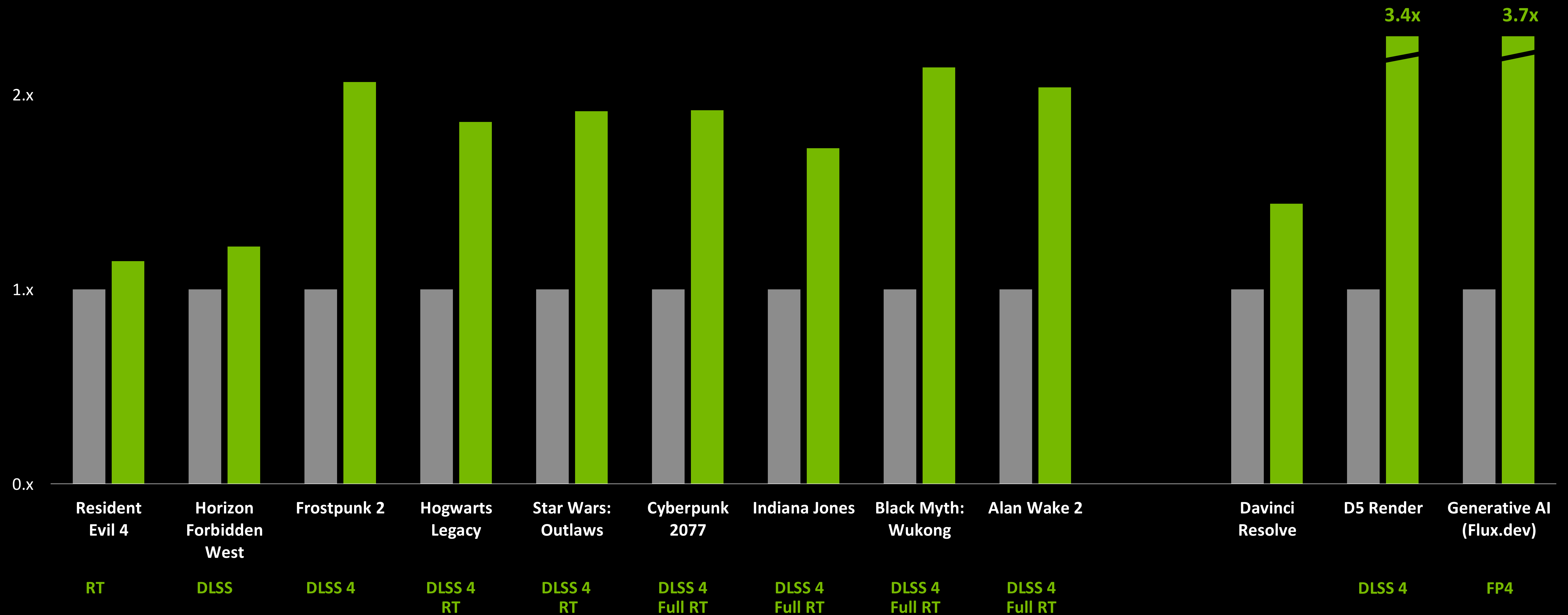
GeForce RTX 50 Series Comes To Laptops

RTX 5090 | 5080 | 5070 Ti | 5070

- 4090 performance, half the power
- 2X faster, 2X larger AI models
- 40% faster video editing
- 40% more battery life
- As thin as 14.9mm

RTX 50 Series Laptops

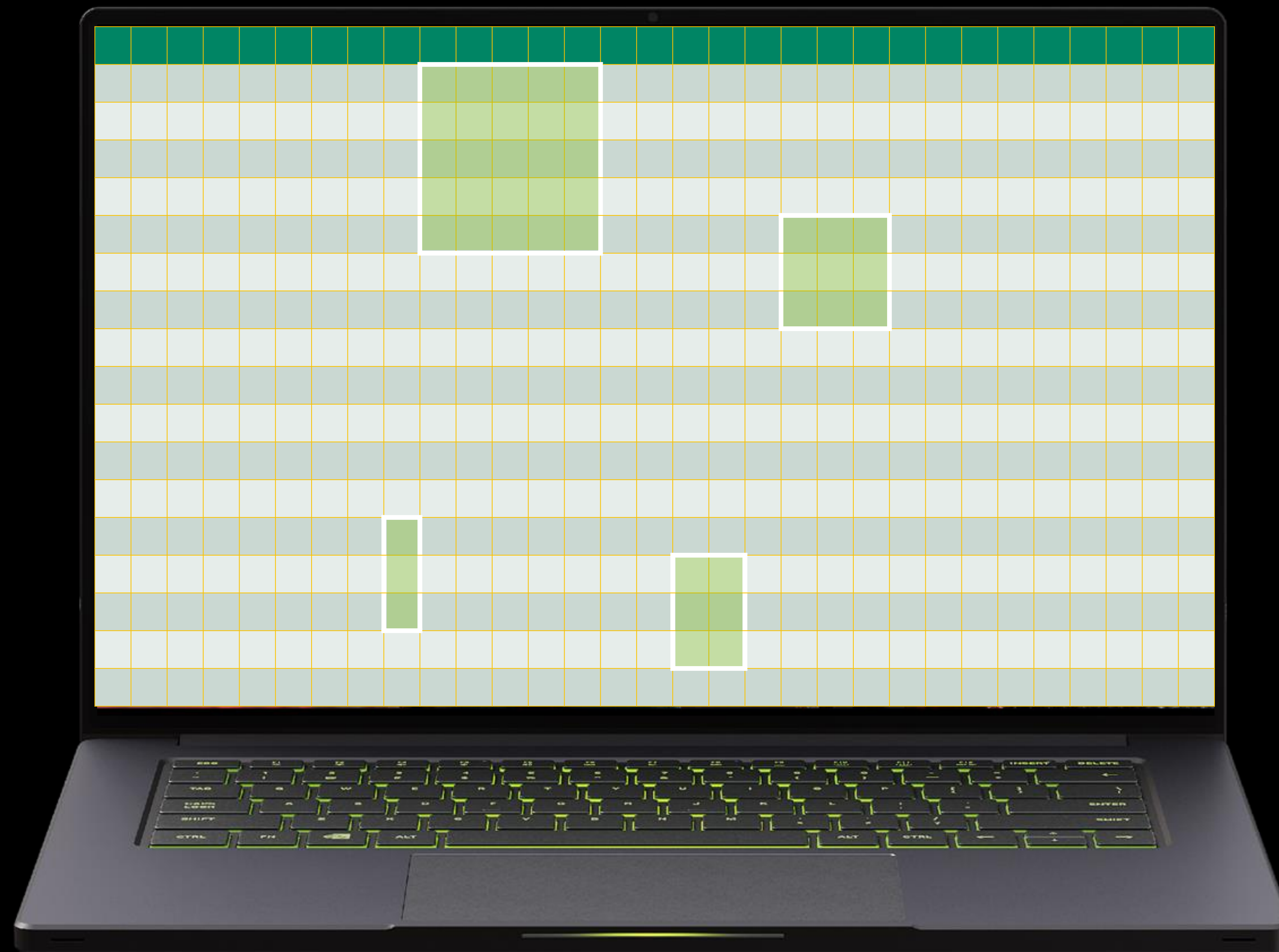
■ RTX 5080 ■ RTX 4080



150W GPU TGP, 1440p, Max Settings, DLSS Super Resolution and DLSS Ray Reconstruction on 40 and 50 series; Frame gen on 40 Series. Multi Frame Gen (4x Mode) on 50 Series. Horizon Forbidden West supports DLSS 3.

40% Longer Gaming On The Go

New BatteryBoost with scene awareness

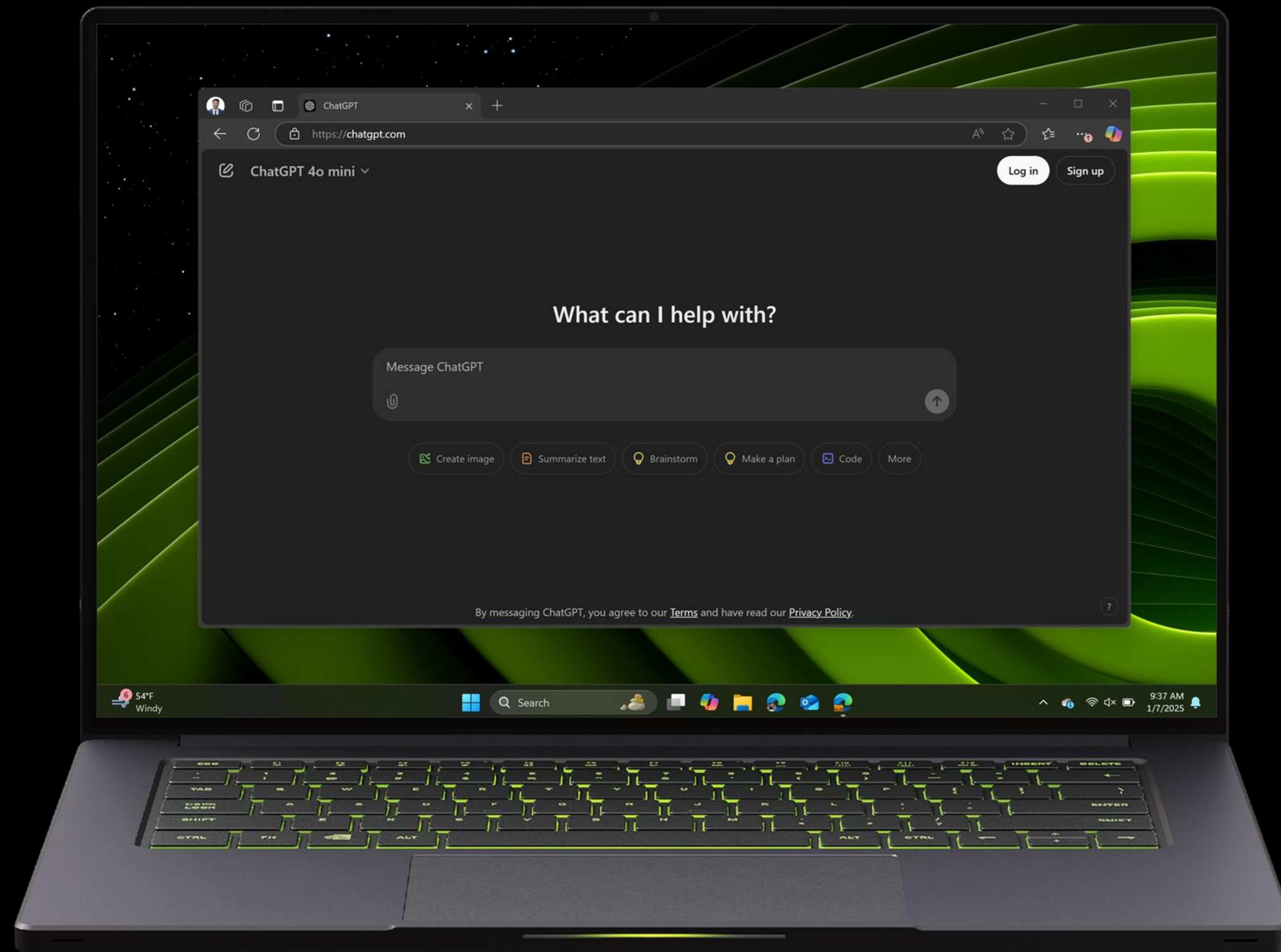


Dynamically saves power during:

- Low scene motion
- Marginal pixel changes
- Minimal player interaction

30% Longer Web and Video

Battery optimized platform settings



Battery optimal display refresh and PSR



Energy efficient CPU frequency ramping, C states, and core parking



Faster, deeper PCIe, SSD, memory, and IO power states

Announcing RTX 50 Series Laptops

Coming from every major OEM



Acer Predator Helios 16 AI



ASUS ROG Zephyrus G16



Dell Alienware 16 Area-51



Gigabyte AERO X16



HP OMEN MAX 16



Lenovo Legion 7i Pro



MSI Stealth 16 AI



Razer Blade 16

RTX 5090 1,824 AI TOPS, 24GB \$2,899	RTX 5080 1,334 AI TOPS, 16GB \$2,199	RTX 5070 Ti 992 AI TOPS, 12GB \$1,599	RTX 5070 798 AI TOPS, 8GB \$1,299
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Availability Starting March



