Intel® Core™ Ultra 200HX Plus

Mobile Processors

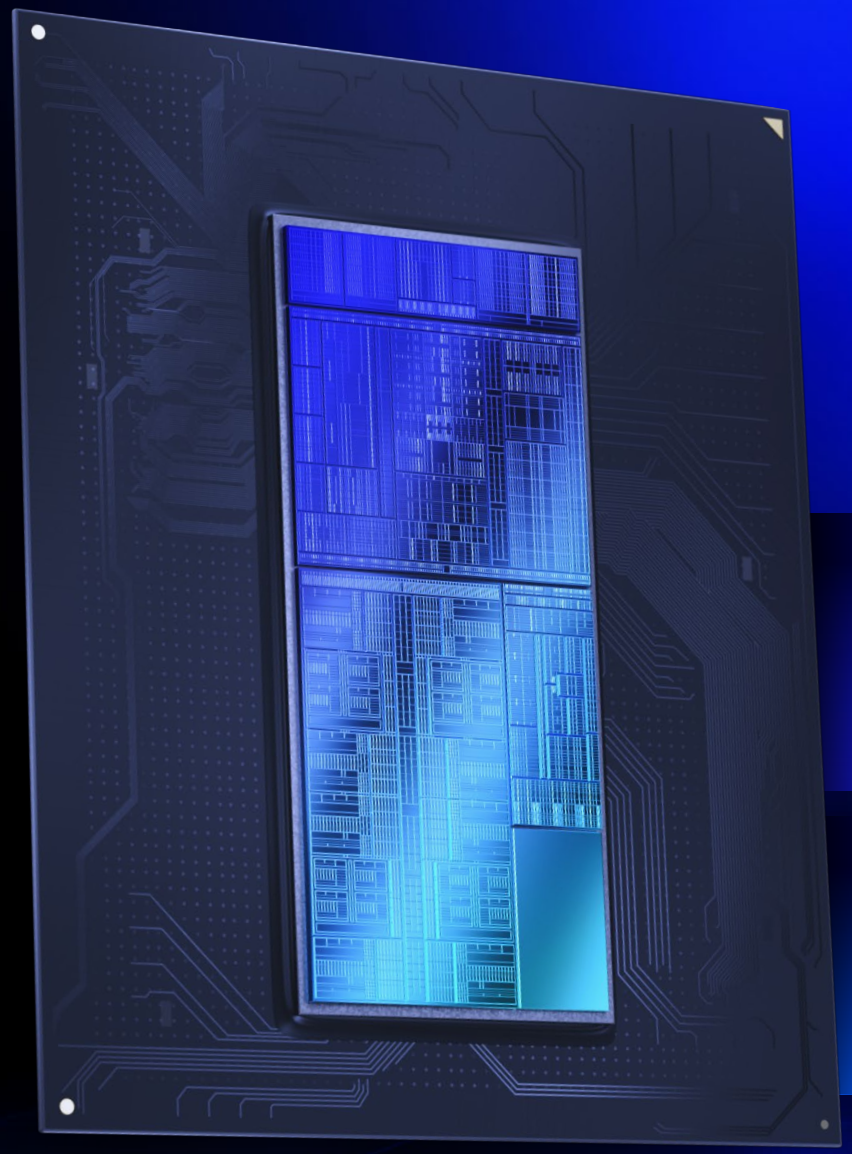
Embargo: March 17, 2026 at 12a.m. Pacific Time

NEW INDICATOR

"Plus"

Pushed further for enthusiasts

Architecture and process refinements	More performance for an existing platform	The ultimate expression of a new architectural generation



Intel® Core™ Ultra 200HX Plus

Intel® Core™ Ultra 9 290HX Plus

24 Cores (8P+16E)	**24** Threads	**5.5** Max GHz	**+900** MHz die-to-die frequency

Intel® Core™ Ultra 7 270HX Plus

20 Cores (8P+12E)	**20** Threads	**5.3** Max GHz	**+900** MHz die-to-die frequency

intel

See ark.intel.com for additional details

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Intel® Core™ Ultra 200HX Plus

Key features

- Lion Cove P-Core Architecture
- Skymont E-Core Architecture
- **NEW** Enhanced Uncore Frequencies
- Integrated NPU
- Xᵉ LPG Graphics Architecture
- Up to 36 MB Shared Intel® Smart Cache L3
- Integrated Thunderbolt 4 Technology
  Discrete Thunderbolt 5 Technology

- DDR5-6400 MT/s Support
- Integrated Wi-Fi 6E, Discrete Wi-Fi 7 Capable
- **NEW** Intel Platform Performance Package
- **NEW** Supports Intel Binary Optimization Tool
- Intel Application Optimization (APO)
- Intel Extreme Memory Profile (XMP)
- Intel Extreme Tuning Utility (XTU)

intel

See ark.intel.com for additional details

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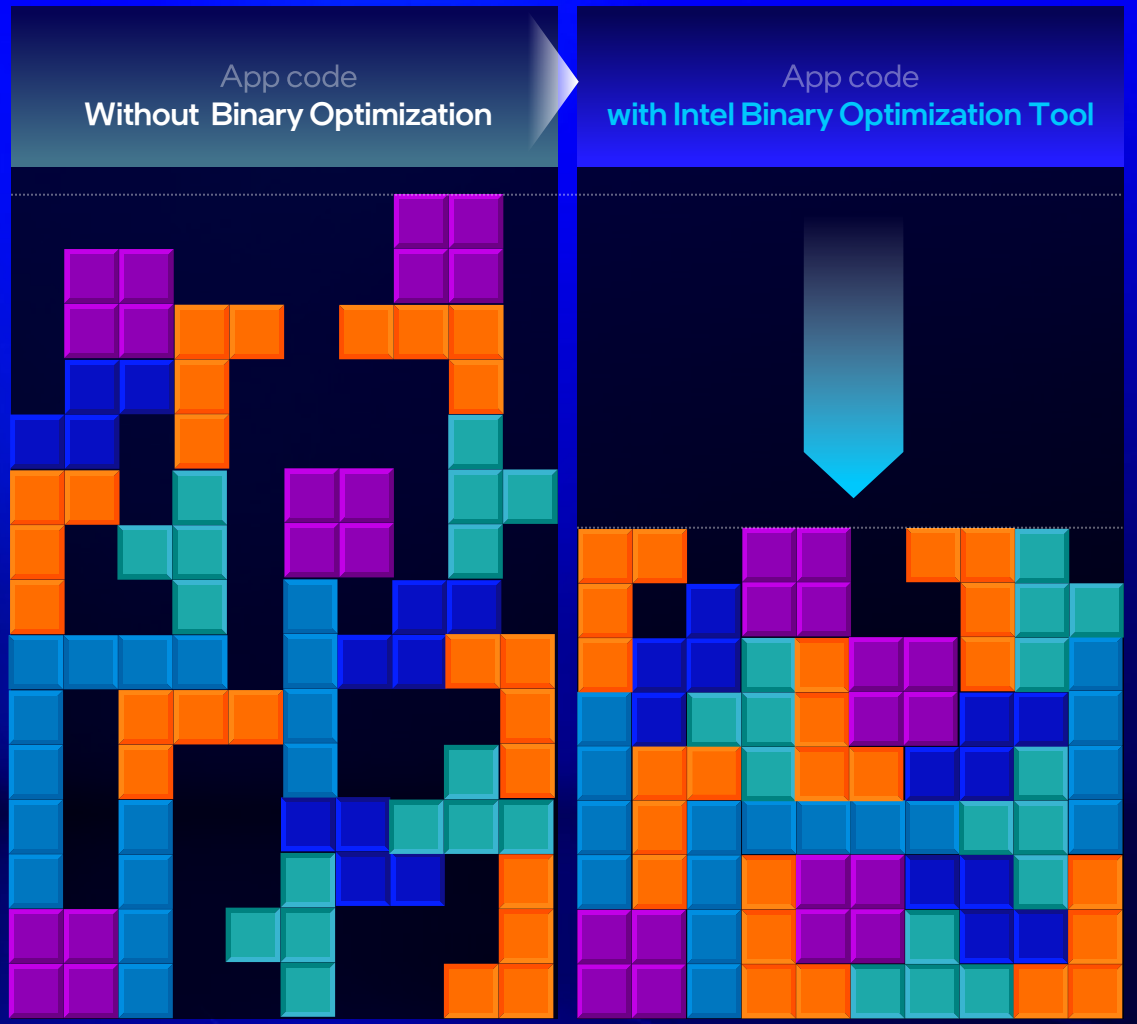
Intel® Binary Optimization Tool

An all-new class of optimization IP
to serve enthusiast performance*

Leverages Intel compiler and profiling IP
to streamline library & executable performance

No skipped work
results achieved by reducing architectural contention



For illustrative purposes only

*On supported Intel Binary Optimization Tool workloads. Intel® Binary Optimization Tool is an optional feature available by switching on Advanced Mode of Intel® Application Optimization.

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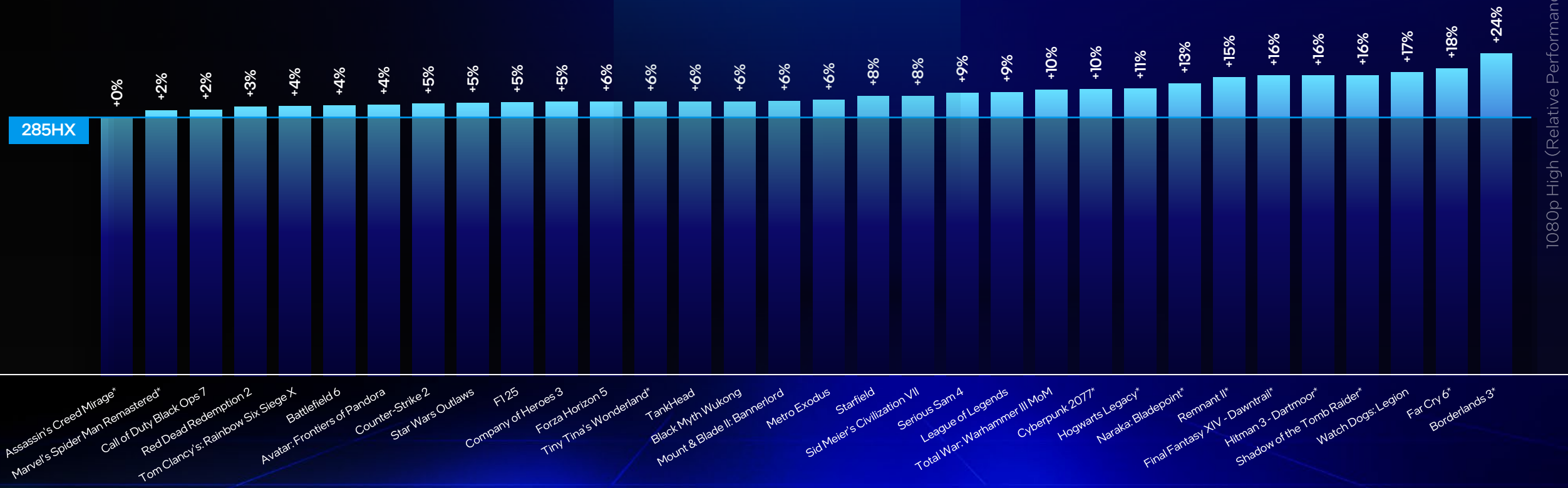
Gaming on Intel® Core™ Ultra 9 290HX Plus

vs. Intel® Core™ Ultra 9 285HX

+8%

Average Uplift @ 1080p High



*Intel Binary Optimization Tool enabled. Intel® Binary Optimization Tool is an optional feature available by switching on Advanced Mode of Intel® Application Optimization. See intel.com/performanceindex for details. Results may vary

Intel® Core™ Ultra 9 290HX Plus
RTX 5090 Laptop
MSI Titan 18

Intel® Core™ Ultra 9 285HX
RTX 5090 Laptop
MSI Titan 18

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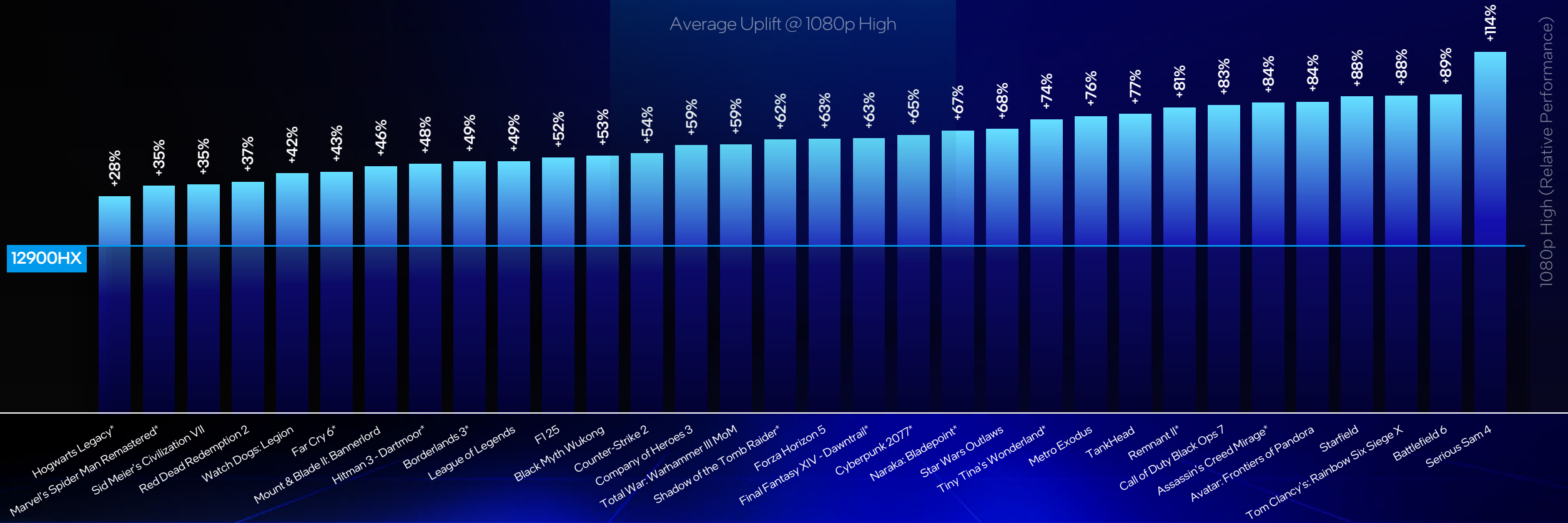
Gaming Performance: Four Year Upgrade

Intel® Core™ Ultra 9 290HX Plus vs. Intel® Core™ i9-12900HX

+62%

Average Uplift @ 1080p High



*Intel Binary Optimization Tool enabled. Intel® Binary Optimization Tool is an optional feature available by switching on Advanced Mode of Intel® Application Optimization. See intel.com/performanceindex for details. Results may vary

Intel® Core™ Ultra 9 290HX Plus
RTX 5090 Laptop
MSI Titan 18

Intel® Core™ i9-12900HX
RTX 3080 Ti Laptop
MSI Titan 18

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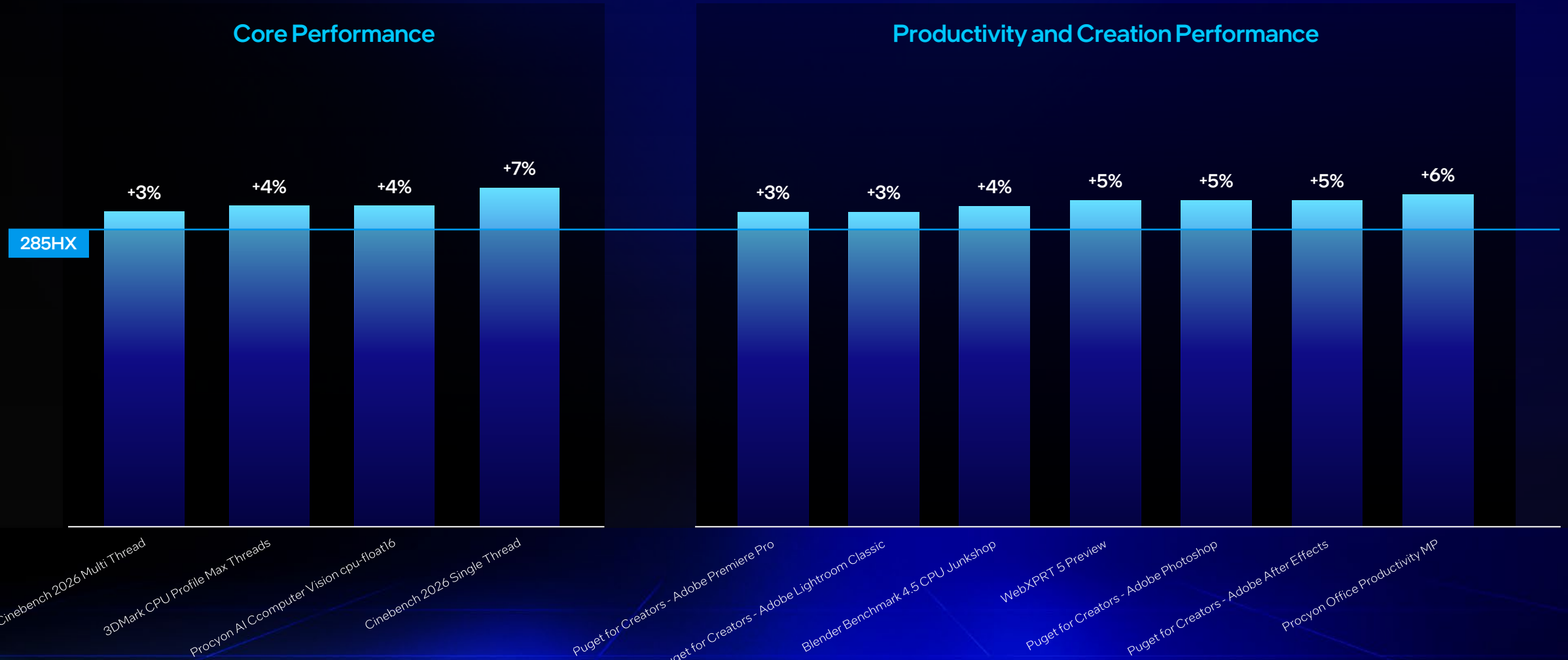
Creating on Intel® Core™ Ultra 9 290HX Plus

vs. Intel® Core™ Ultra 9 285HX



Intel® Core™ Ultra 9 290HX Plus
RTX 5090 Laptop
MSI Titan 18

Intel® Core™ Ultra 9 285HX
RTX 5090 Laptop
MSI Titan 18

See intel.com/performanceindex for details. Results may vary.

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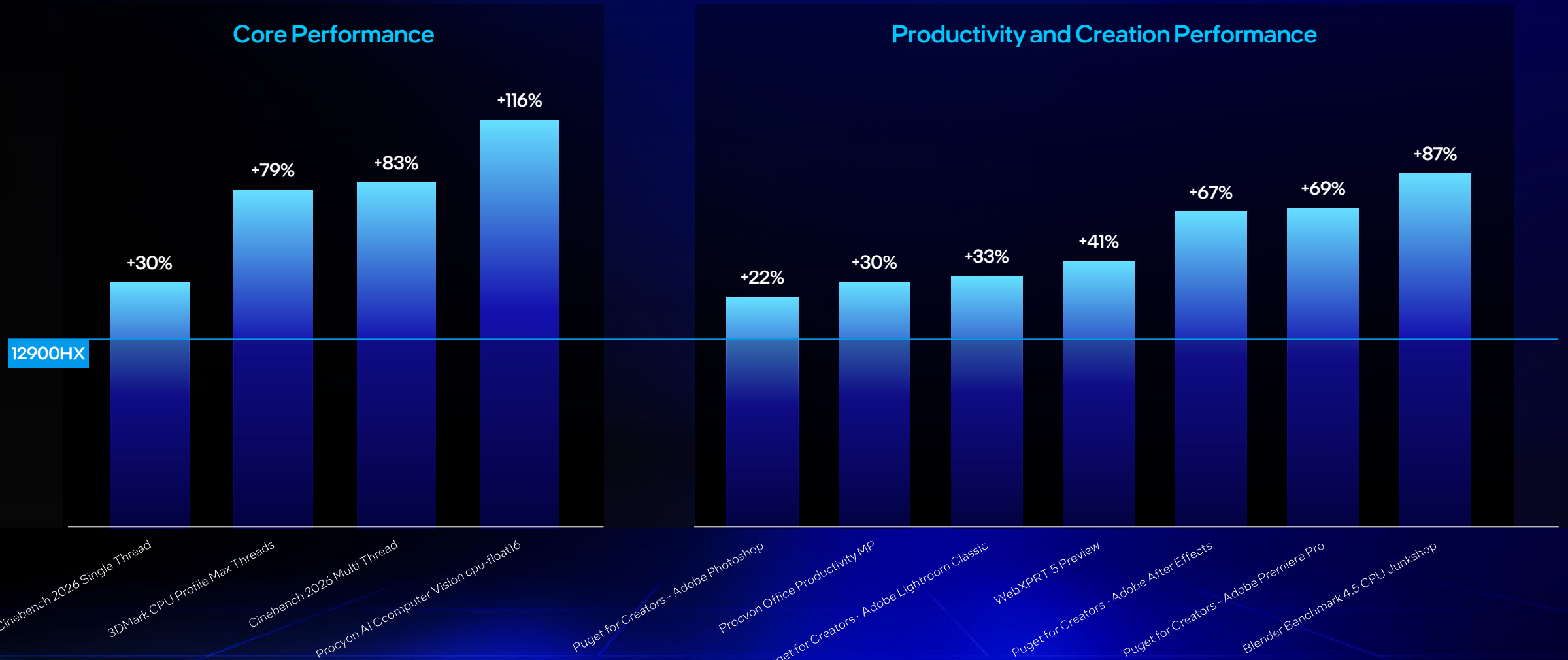
Creating Performance: Four Year Upgrade

Intel® Core™ Ultra 9 290HX Plus vs. Intel® Core™ i9-12900HX



Intel® Core™ Ultra 9 290HX Plus
RTX 5090 Laptop
MSI Titan 18

Intel® Core™ i9-12900HX
RTX 3080 Ti Laptop
MSI Titan 18

See intel.com/performanceindex for details. Results may vary.

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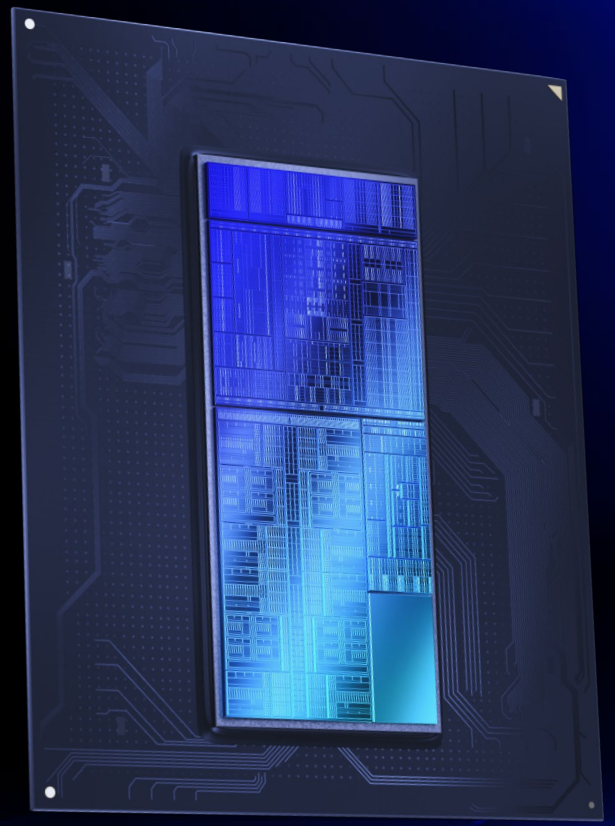
Intel Core Ultra 200HX



	Cores	Total threads	GPU cores	NPU TOPS	Max GHz	Die-to-die frequency
Intel® Core™ Ultra 9 290HX Plus	24 (8P+16E)	24	4	13	5.5	+900 MHz
Intel® Core™ Ultra 9 285HX	24 (8P+16E)	24	4	13	5.5	
Intel® Core™ Ultra 9 275HX	24 (8P+16E)	24	4	13	5.4	
Intel® Core™ Ultra 7 270HX Plus	20 (8P+12E)	20	4	13	5.3	+900 MHz
Intel® Core™ Ultra 7 265HX	20 (8P+12E)	20	4	13	5.3	
Intel® Core™ Ultra 7 255HX	20 (8P+12E)	20	4	13	5.2	
Intel® Core™ Ultra 5 245HX	14 (6P+8E)	14	3	13	5.1	
Intel® Core™ Ultra 5 235HX	14 (6P+8E)	14	3	13	5.1	

See ark.intel.com for additional details.

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Notices and Disclaimers

Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex.

Intel® Binary Optimization Tool is an optional feature available by switching on advanced mode of Intel® Application Optimization, which is a policy within Intel® Dynamic Tuning Technology that optimizes performance on select games when played on required configurations on select Intel® Core™ processors. Learn more at https://www.intel.com/content/www/us/en/support/articles/000095419/processors.html for additional details and see ark.intel.com for product details.

While Wi-Fi 7 is backward compatible with previous generations, new Wi-Fi 7 features require PCs configured with Intel Wi-Fi 7 solutions, PC OEM enabling, operating system support, and use with appropriate Wi-Fi 7 routers/APs/gateways. 6 GHz Wi-Fi 7 may not be available in all regions. More details at www.Intel.com/performance-wireless.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

The processor number is one of several factors, along with processor brand, specific system configurations, and system-level benchmarks, to be considered when choosing the right processor for your computing needs. A higher number within a processor class or family generally indicates more features, but it may be more of one and less of another. Once you decide on a specific processor brand and type, compare processor numbers to verify the processor includes the features you are looking for.

Some images may have been altered or simulated and are for illustrative purposes only.

All product plans and roadmaps are subject to change without notice.

No product or component can be absolutely secure. Intel technologies may require enabled hardware, software or service activation.

Your costs and results may vary.

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Appendix

Claim # & Statement	Slide # & Title/Details
	Slide 6: Intel Core Ultra 9 290HX Plus Gaming vs. Intel® Core™ Ultra 9 285HX
1. Up to 8% geomean faster gaming performance vs. previous generation across 32 games	As measured by geomean of average FPS across 32 games at 1080p High on Intel® Core™ Ultra 9 290HX Plus, including benefits from Intel Binary Optimization Tool feature enabled on select titles, compared to Intel® Core™ Ultra 9 285HX. See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
	Slide 7: Intel Core Ultra 9 290HX Plus vs. Intel® Core™ i9-12900HX
2. Up to 62% geomean faster gaming performance vs. 4-year-old generation across 32 games	As measured by geomean of average FPS across 32 games at 1080p High on Intel® Core™ Ultra 9 290HX Plus, including benefits from Intel Binary Optimization Tool feature enabled on select titles, compared to Intel® Core™ i9 12900HX. See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
	Slide 8: Intel Core Ultra 9 290HX Plus Gaming vs. Intel® Core™ Ultra 9 285HX
3. Up to 7% faster single-threaded performance vs. previous generation	As measured by Cinebench 2026 Single Thread on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
4. Up to 3% faster multi-threaded performance vs. previous generation	As measured by Cinebench 2026 Multi Thread on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
5. Up to 4% faster multi-threaded performance vs. previous generation	As measured by 3DMark CPU Profile Max Threads on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
6. Up to 6% faster productivity performance vs. previous generation	As measured by UL Procyon Office Productivity MP on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
7. Up to 5% faster web-browsing performance vs. previous generation	As measured by WebXPRT5 (Chrome) on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary
8. up to 3% faster video editing performance vs. previous generation	As measured by PugetBench Adobe Premiere Pro Standard score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
9. Up to 3% faster photo editing performance vs. previous generation	As measured by PugetBench Adobe Lightroom Classic Standard score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
10. Up to 5% faster video editing performance vs. previous generation	As measured by PugetBench Adobe After Effects Standard score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
11. Up to 5% faster photo editing performance vs. previous generation	As measured by PugetBench Adobe Photoshop Standard score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
12. Up to 4% faster 3D rendering performance vs. previous generation	As measured by Blender Benchmark Junkshop sub-score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ Ultra 9 285HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.

Claim # & Statement	Slide # & Title/Details
	Slide 9: Intel Core Ultra 9 290HX Plus Gaming vs. Intel® Core™ i9 12900HX
13. Up to 30% faster single-threaded performance vs. 4-year-old generation generation	As measured by Cinebench 2026 Single Thread on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX. See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
14. Up to 83% faster multi-threaded performance vs. 4-year-old generation generation	As measured by Cinebench 2026 Multi Thread on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
15. Up to 79% faster multi-threaded performance vs. 4-year-old generation generation	As measured by 3DMark CPU Profile Max Threads on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
16. Up to 30% faster productivity performance vs. 4-year-old generation	As measured by UL Procyon Office Productivity MP on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
17. Up to 41% faster web-browsing performance vs. 4-year-old generation	As measured by WebXPRT5 (Chrome) on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary
18. up to 69% faster video editing performance vs. 4-year-old generation	As measured by PugetBench Adobe Premiere Pro Standard score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
19. Up to 22% faster photo editing performance vs. 4-year-old generation	As measured by PugetBench Adobe Lightroom Classic Standard score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
20. Up to 67% faster video editing performance vs. 4-year-old generation	As measured by PugetBench Adobe After Effects Standard score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
21. Up to 22% faster photo editing performance vs. 4-year-old generation	As measured by PugetBench Adobe Photoshop Standard score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
22. Up to 87% faster 3D rendering performance vs. 4-year-old generation	As measured by Blender Benchmark Junkshop sub-score on Intel® Core™ Ultra 9 290HX Plus compared to Intel® Core™ i9 12900HX . See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.

Configuration Details:

Performance results are based on testing as of 03/6/2026

	MSI Titan 18 HX A2WJ	MSI Titan 18	MSI Titan 18 GT77 HX
CPU	Intel Core Ultra 9 290HX Plus	U9 285HX	i9-12900HX
Cores/Threads	8P16E=24C24T	8P16E=24C24T	16C24T
Memory	64GB DDR5-6400	2x32GB DDR5-6400MHz	4x16GB DDR5-4000MHz
Max Boost Clock (Freq)	5.5 GHz	5.5 GHz	5.0 GHz
Storage	Samsung SSD 9100 PRO 1TB 931.51GB	Samsung SSD 9100 PRO 1TB	Samsung SSD 9100 PRO 1TB
OS	Windows 11 Pro	Windows 11 Pro	Windows 11 Pro
OS Version	26200.6899 (25H2)	26200.7840 (25H2)	26200.7840 (25H2)
Chrome Version	v145	v145	v145
Graphics(Integrated)	Intel Graphics	Intel® UHD Graphics	Intel® UHD Graphics
Graphics Driver Version (Integrated)	32.0.101.8331	32.0.101.8425	32.0.101.7084
Graphics (Discrete)	NVIDIA GeForce RTX 5090 Laptop GPU	NVIDIA GeForce RTX 5090 Laptop GPU	NVIDIA GeForce RTX 3080 Ti Laptop GPU
Graphics Driver (Discrete)	591.86 - 32.0.15.9186	591.86 - 32.0.15.9186	591.86 - 32.0.15.9186
Graphics TGP	175 W	175 W	175 W
NPU	Intel AI Boost	Intel® AI Boost	N/A
NPU Driver Version	32.0.100.4512	32.0.100.4512	N/A
Resolution (Native)	3840 x 2400	3840x2400	3840x2160
Display Scale	200	200	250
Battery Size - Designed Capacity (Wh)	95.00	95.00	95.00
Battery Size - Full Charged Capacity (Wh)	91.23	92.14	71.58
PC BIOS	E1824IMS.505 (01/27/2026)	E1824IMS.119, 11/28/2025	E17Q1IMS.112, 7/4/2023
Screen Size	18"	17.3"	17.3"
Touch Screen (Yes or No)	No	No	No
Screen Type (4k OLED, 2k OLED, FHD, FHD+, etc)	4K LCD	4K LCD	4K LCD
Power Plan	Balanced	Balanced	Balanced
Power Mode (Win 11 Feature)	Best Performance	Best Performance	Best Performance
Power App Setting (OEM's App)	MSI Center = Extreme Performance	MSI Center = Extreme Performance	MSI Center = Extreme Performance
VBS	Enabled and running	Running	Running
Defender	Running	Running	Running
Tamper Protection	Running	Running	Running