AMD RYZEN™ AI 400
SERIES PROCESSORS

Delivering the best pc experience possible
And adding the superpowers of AI

AMD
together we advance_

AMD is enabling the AI era

Through hardware, software, and partnerships

Enabling AI Everywhere

AMD enables complete AI solutions
Cloud + Edge + PC

Premium Partnerships

AMD partners with leading AI
companies across all segments

AI is for everyone
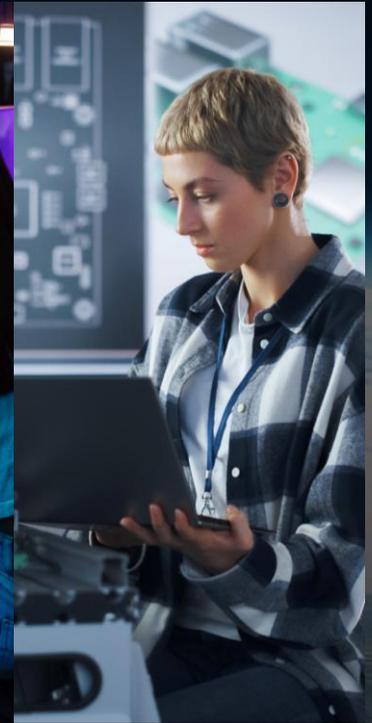
Endpoints are personal

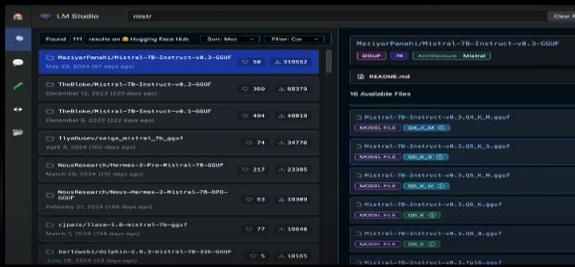Professionals   Creators   Students   Educators   Gamers   Developers

AMD
together we advance_

The power of AMD Ryzen™ AI PCs

AI Workflows are changing how we utilize our time
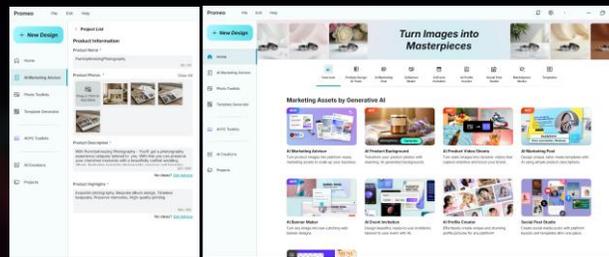
Productivity

Accelerate document writing

LM Studio

18m 22s ▶ 7m 48s

2.3x Faster Document Writing

Content Creators

Speed through image creation

Cyberlink Promeo
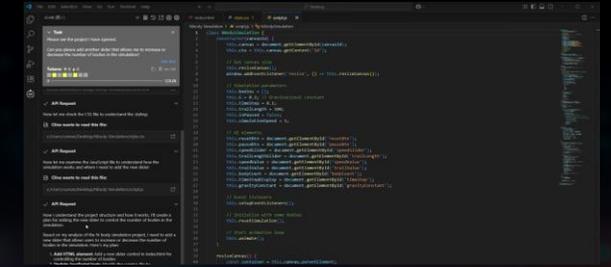
8m 30s ▶ 30s

17x Faster Image Creation

Developers

Build apps with vibe coding

Microsoft VS Code

93h 20m ▶ 17h 3m

5.5x Faster App Building

All scores are up to. Endnotes DITL-12, DITL-13, DITL-14.

AMD
together we advance_

AMD Ryzen™ AI 400 Series

The best processor for Copilot+ laptops & first desktop Copilot+ processor

Copilot+PC

Endnotes GPT-6, GPT-7, GPT-9, GPT-10, GPT-11, GPT-12.

AMD together we advance_
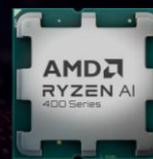
AMD Ryzen™ AI 400 Series Processors
Mobile design targets

Performance For All Your Needs

Best in class
CPU, GPU, NPU performance

Multi-Day Mobility

Optimized low power architecture
with workload optimizations

Next-Gen AI Experiences

Leading AI performance
and experiences

Endnotes GPT-5, GPT-6, GPT-7, GPT-10, GPT-11, GPT-12.

AMD
together we advance_

AMD Ryzen™ AI 9 HX 475 / 470 Processors

Ryzen™ Processor

12 Cores	**24** Threads	**5.2 GHz** Boost Clock (up to)
4x "Zen 5"	**8x** "Zen 5C"	**8533 MT/s** Memory Support (up to)
36 MB Cache (L2+L3)	**16** PCIe Lanes	
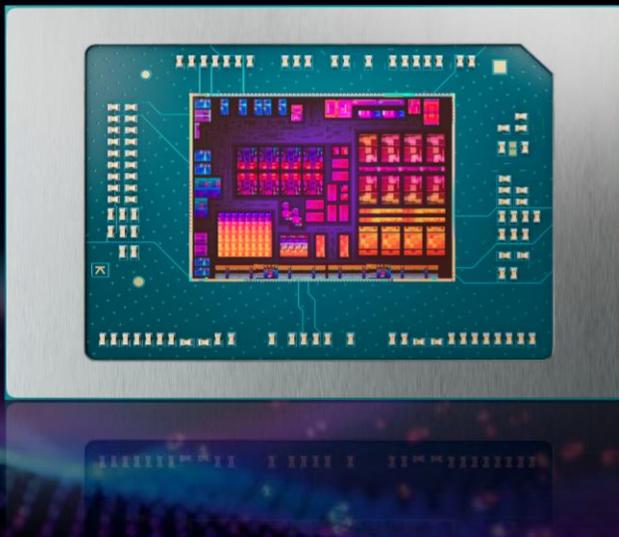
Radeon™ Graphics

16 Compute Units	**3.1 GHz** Boost Clock (up to)
AMD RDNA™ 3.5 architecture	Radiance Display Engine
16 2nd Gen Raytracing Accelerators	**16** AI Accelerators

Neural Processing Unit

AMD XDNA™ 2 architecture	**55** NPU TOPS HX 470 (up to)	**60** NPU TOPS HX 475 (up to)

AMD ROCm **Copilot+PC**

TSMC 4nm **15-54W** Configurable TDP

Endnote GD-150, GD-151, GD-243.

AMD together we advance_

AMD Ryzen™ AI 400 Series Processors

Leadership in fast and responsive PC experiences

AMD Ryzen™ AI 9 HX 470 (28W) vs. Intel Core Ultra 9 288V (30W)

1.3x
Faster
Multitasking

1.7x
Faster
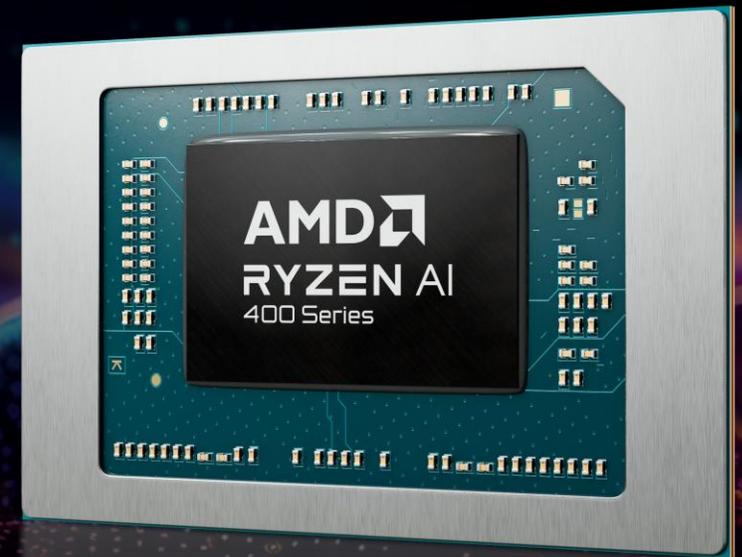Content Creation

Multi-Day
Battery Life

1.1x
Faster
Gaming

1.25x
More NPU TOPS*

1.7x
Higher Unplugged
Productivity
Cinebench nT

All scores are up to. Endnotes GPT-5, GPT-6, GPT-9, GPT-10, GPT-11, GPT-12.
*on AMD Ryzen™ AI 9 HX 475 processors
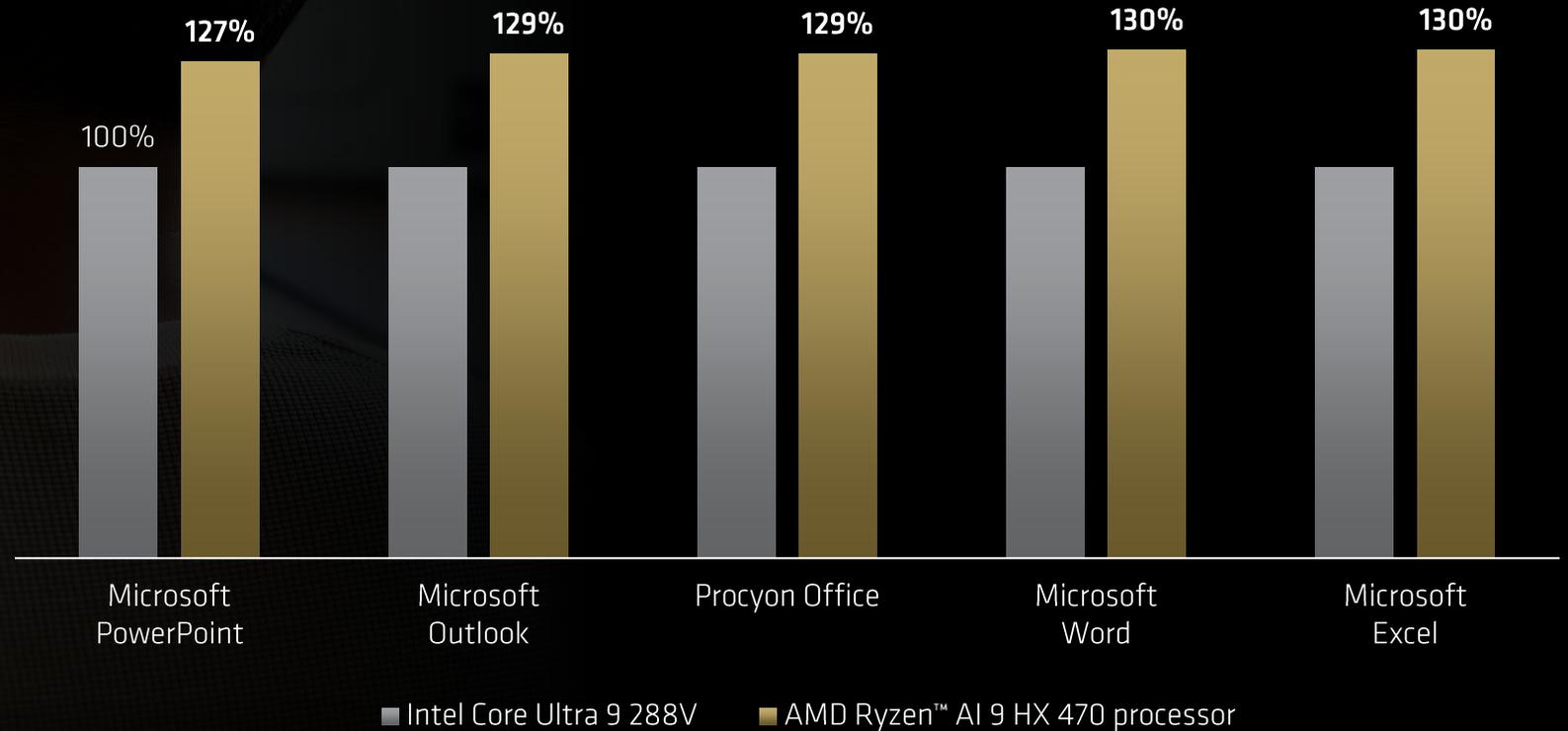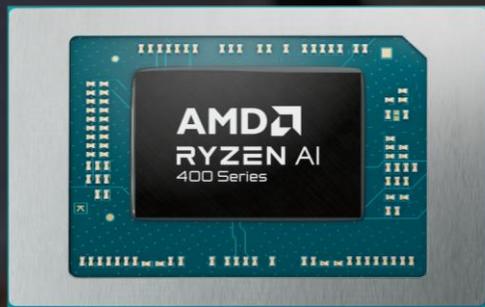
AMD
together we advance_

Leadership performance
Multitasking

Average

+29% Faster

when multitasking across office productivity apps while running a 10-person Microsoft Teams video call with camera and background blur turned on.

Chart data:

	Microsoft PowerPoint	Microsoft Outlook	Procyon Office	Microsoft Word	Microsoft Excel
Intel Core Ultra 9 288V	100%				
AMD Ryzen™ AI 9 HX 470 processor	127%	129%	129%	130%	130%

■ Intel Core Ultra 9 288V   ■ AMD Ryzen™ AI 9 HX 470 processor

All scores are up to. See endnote GPT-11.
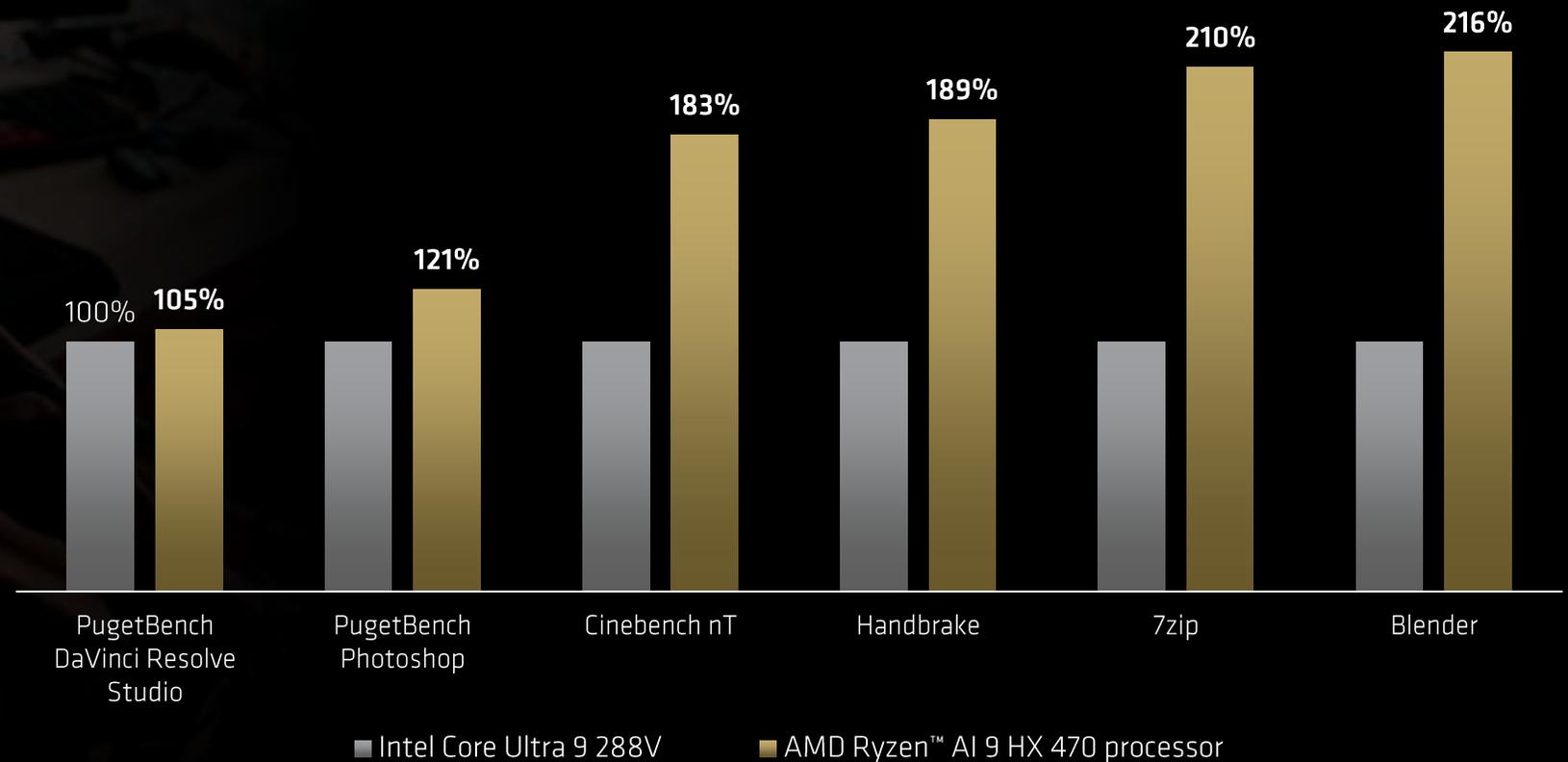
AMD
together we advance_

Leadership performance
Creation

Average
+71% Faster
In common Content Creation benchmarks and applications

216%
210%
189%
183%
121%
100% **105%**

| PugetBench DaVinci Resolve Studio | PugetBench Photoshop | Cinebench nT | Handbrake | 7zip | Blender |

■ Intel Core Ultra 9 288V   ■ AMD Ryzen™ AI 9 HX 470 processor

All scores are up to. See endnote GPT-10.

AMD
together we advance_
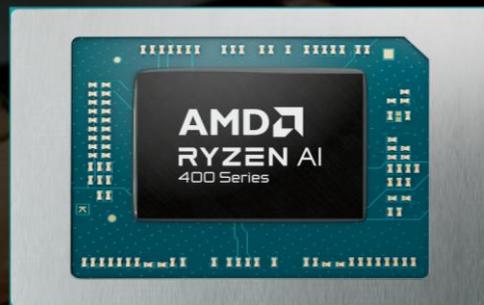
Leadership performance
Gaming

Average
+12% Faster
Avg FPS at 1080p Low Settings

119% 119%

116%

114%

105% 105% 105%

100%

F1® 25

Borderlands 3

Cyberpunk 2077

Sid Meier's Civilization V

Monster Hunter Wilds

Black Myth Wukong

Counter-Strike 2

■ Intel Core Ultra 9 288V   ■ AMD Ryzen™ AI 9 HX 470 processor

All scores are up to. See endnote GPT-12.

AMD
together we advance_
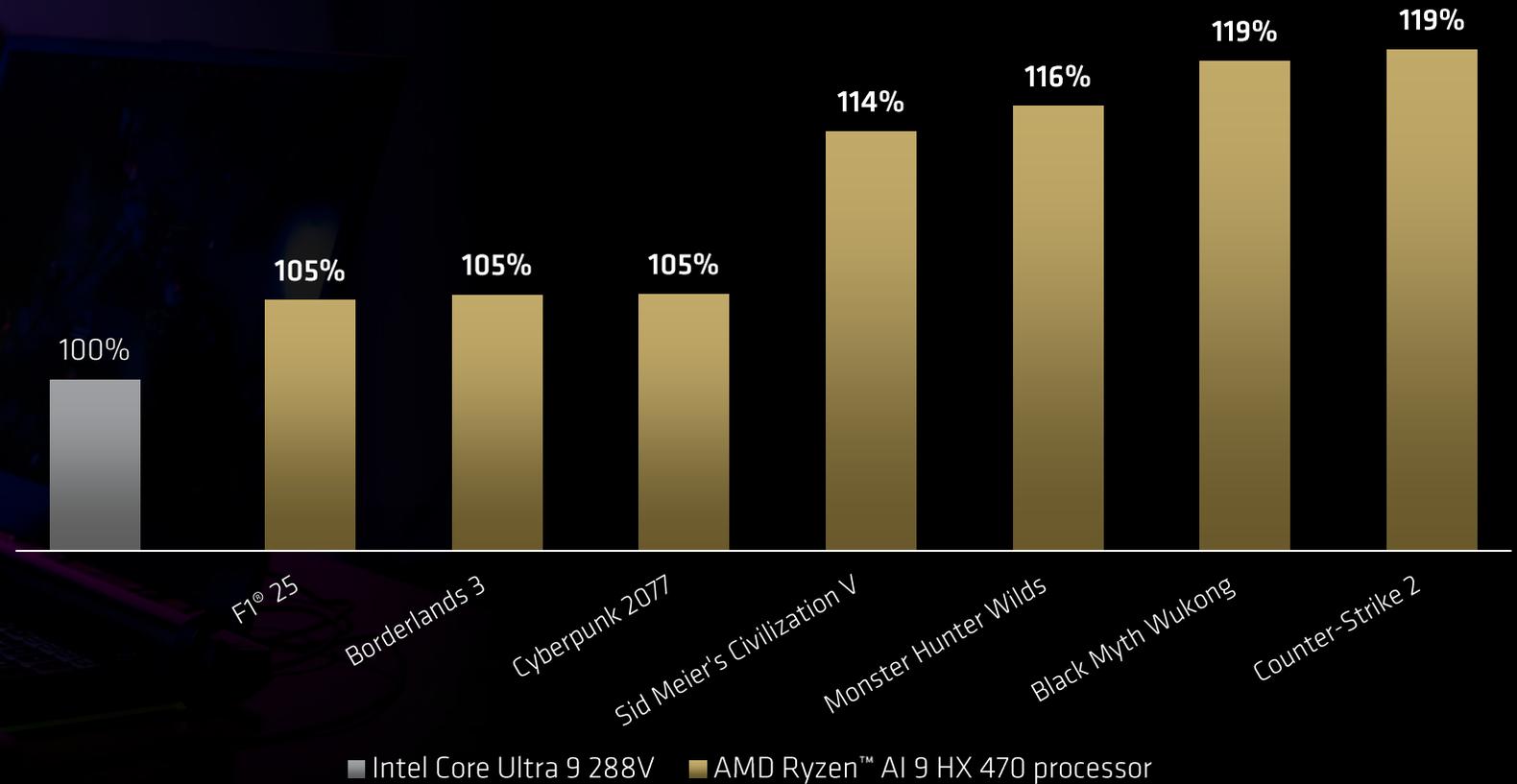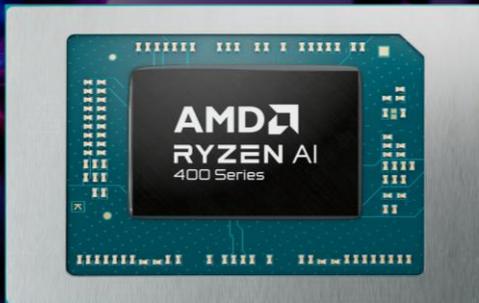
Faster gaming
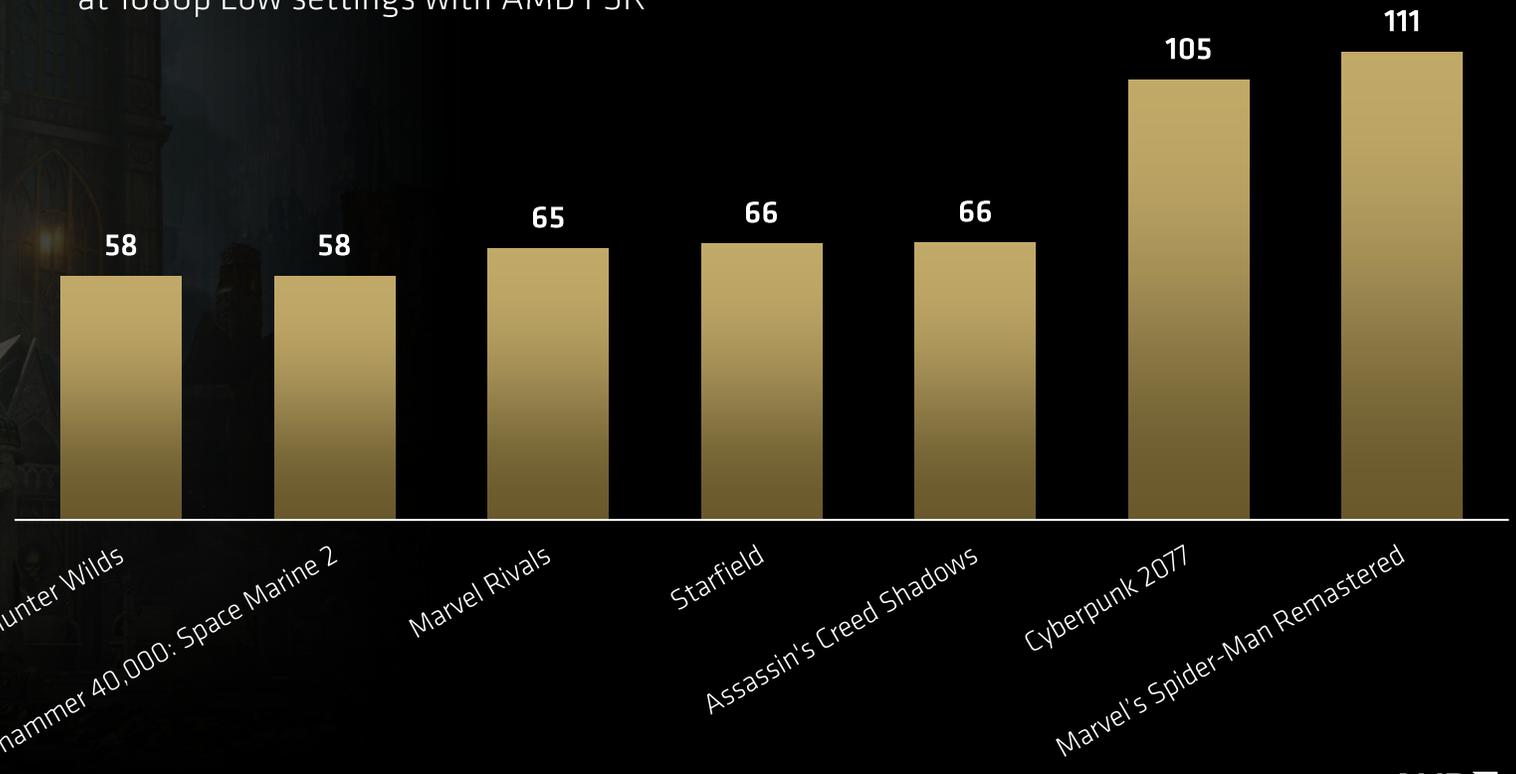## with AMD FSR™

Average
73 FPS
Gaming

Average
100%
More performance

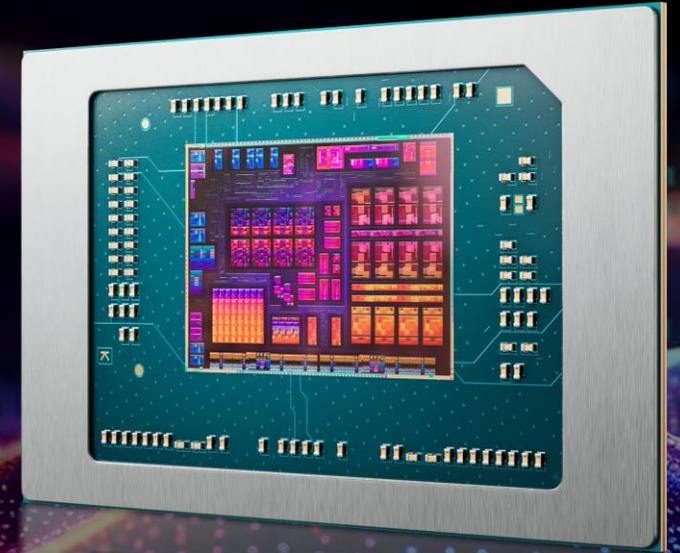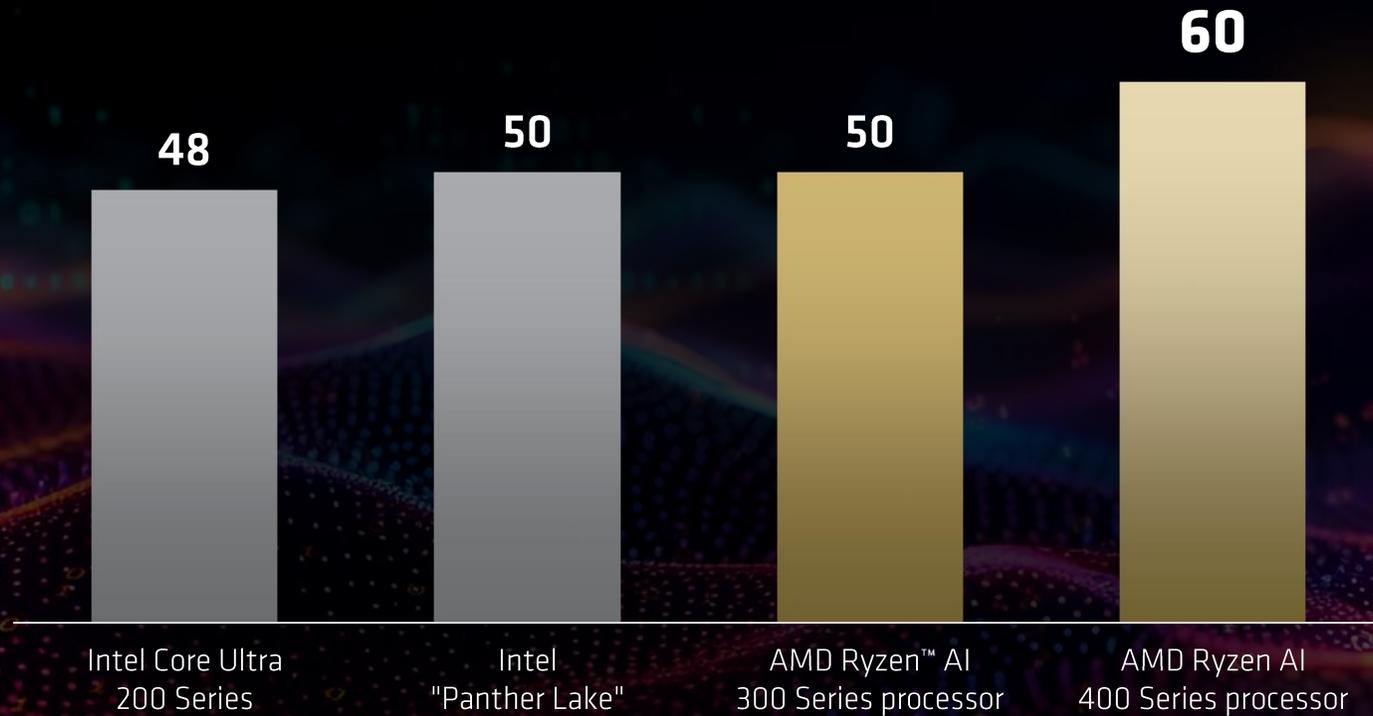## AI Upscaling on NPU
Coming in 2026 with Microsoft Automatic Super Resolution

Avg FPS on AMD Ryzen™ AI 9 HX 470 (28W) at 1080p Low settings with AMD FSR

Game	FPS
Monster Hunter Wilds	58
Warhammer 40,000: Space Marine 2	58
Marvel Rivals	65
Starfield	66
Assassin's Creed Shadows	66
Cyberpunk 2077	105
Marvel's Spider-Man Remastered	111

All scores are with AMD FSR "Quality" mode and Frame Gen turned on. See endnote GPT-13.

AMD
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World's most powerful NPU

for x86-based systems

NPU 8-bit TOPS (up to)
On Top Model of Each Series

Intel Core Ultra 200 Series	Intel "Panther Lake"	AMD Ryzen™ AI 300 Series processor	AMD Ryzen AI 400 Series processor
48	50	50	60

See endnotes GD-243, GPT-6.

AMD
together we advance_

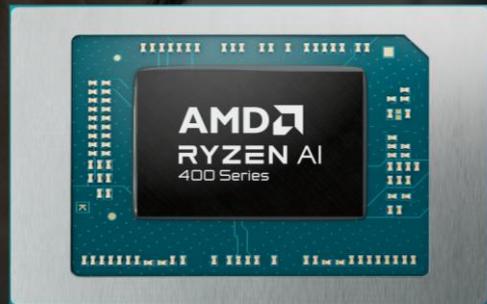# Leadership performance
NPU Performance

Procyon AI Vision

Avg. score across mobilenetv3, resnet50, inceptionv4, deeplabv3, yolov3, esrgan
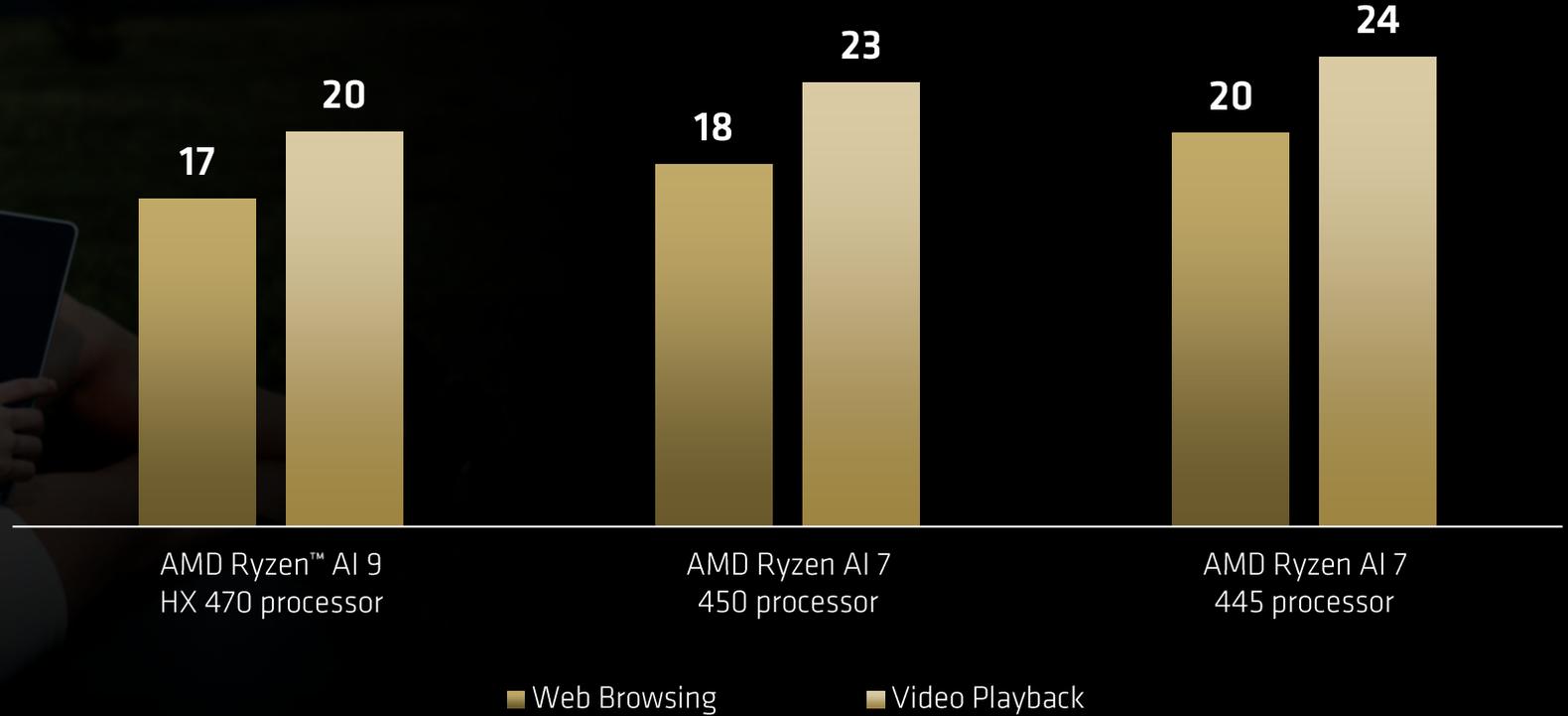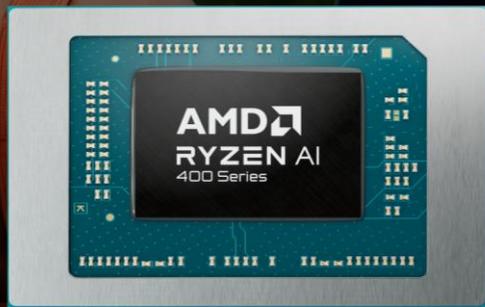
1938

1838

Intel Core Ultra 9 288V

AMD Ryzen™ AI 9 HX 470 processor

See endnote GPT-7.

Multi-day battery life

24 Hours

battery life for uninterrupted mobility

17 **20** **18** **23** **20** **24**

AMD Ryzen™ AI 9
HX 470 processor

AMD Ryzen AI 7
450 processor

AMD Ryzen AI 7
445 processor

■ Web Browsing   ■ Video Playback

All scores are up to. See endnote GPT-5.

AMD
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AMD Ryzen™ AI 400 Series Processors

Powering next generation AI Desktops and Laptops
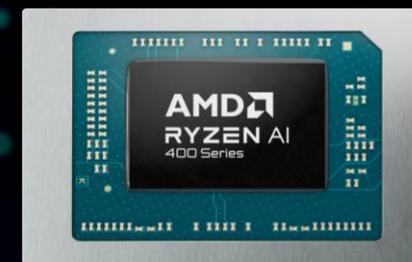
AMD Zen 5
AMD RDNA 3.5
AMD XDNA 2
AMD ROCm
Copilot+PC

Processor Model	Cores / Threads	CPU Architecture	CPU Base Clock	CPU Boost Clock (up to)	cTDP	Cache (L2+L3)	Memory Speed (up to)	NPU TOPs (up to)	Graphics Model	Graphics CUs	GPU Boost Clock (up to)
Ryzen AI 9 HX 475	12 / 24	4x Zen 5 8x Zen 5c	2.0 GHz	5.2 GHz	15-54W	36 MB	8533 MT/s	60	AMD Radeon™ 890M	16	3.1 GHz
Ryzen AI 9 HX 470	12 / 24	4x Zen 5 8x Zen 5c	2.0 GHz	5.2 GHz	15-54W	36 MB	8533 MT/s	55	AMD Radeon™ 890M	16	3.1 GHz
Ryzen AI 9 465	10 / 20	4x Zen 5 6x Zen 5c	2.0 GHz	5.0 GHz	15-54W	34 MB	8533 MT/s	50	AMD Radeon™ 880M	12	2.9 GHz
Ryzen AI 7 450	8 / 16	4x Zen 5 4x Zen 5c	2.0 GHz	5.1 GHz	15-54W	24 MB	8533 MT/s	50	AMD Radeon™ 860M	8	3.1 GHz
Ryzen AI 7 445	6 / 12	2x Zen 5 4x Zen 5c	2.0 GHz	4.6 GHz	15-54W	14 MB	8000 MT/s	50	AMD Radeon™ 840M	4	2.9 GHz
Ryzen AI 5 435	6 / 12	2x Zen 5 4x Zen 5c	2.0 GHz	4.5 GHz	15-54W	14 MB	8000 MT/s	50	AMD Radeon™ 840M	4	2.8 GHz
Ryzen AI 5 430	4 / 8	1x Zen 5 3x Zen 5c	2.0 GHz	4.5 GHz	15-54W	12 MB	8000 MT/s	50	AMD Radeon™ 840M	4	2.8 GHz

Endnote GD-150, GD-151, GD-243.

AMD together we advance_

AMD AI Ecosystem

**Unlocking the power
to build with AI PCs**

Accelerated Automation
NPU accelerated AI-powered applications

Deep Reasoning
Always-on assistants quietly helping
behind the scenes

Customization
Build, Optimize, and Deploy AI
to super charge productivity

AMD
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Expanding AI Experiences
with leading partners

Creation

Adobe | Ai Producer | AMUSE
ARKRUNR | AVID | A.V. Mapping
Blackmagicdesign | blender | BORISFX
Comfy | CyberLink | Distinct AI
EPIC GAMES | ITERNAL | LM Studio
MAXON | Pluxbox | reincubate
Topaz Labs | wondershare 万兴科技

Productivity

affinity | Belt
Blink | DeepTutor
FlowyAIPC | Iterate.ai
KeyShot | Liquid
Microsoft | morphik
NEXA AI | DS SOLIDWORKS *
UDT ACCOMPLISH MORE | ZOOM

Gaming

G+ | VM VOICEMOD
ACTIVISION | Bethesda
CODEMASTERS | KONAMI
SONY | bit STUDIOS
HANGAR 13 | fatshark |

Security

Astrion AI | Bitdefender | BUFFERZONE | McAfee | STYRK AI

Developer

Continue | databiomes | FastFlowLM | Hugging Face | Perplexica

*A Dassault Systèmes Brand.

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High Quality AI, No cloud limits or fees

Custom AI models for your tasks—fast, privacy-focused, and high-fidelity assistance

Cloud

The message you submitted was too long, please edit it and resubmit.

Character limitations with free cloud options

Liquid AI on Ryzen AI
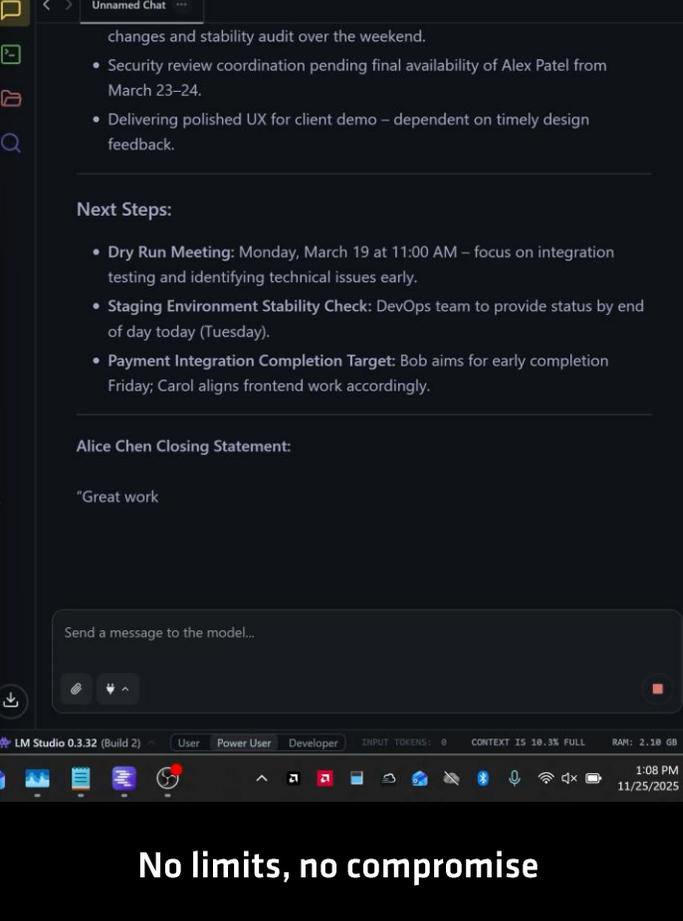
changes and stability audit over the weekend.

- Security review coordination pending final availability of Alex Patel from March 23–24.
- Delivering polished UX for client demo – dependent on timely design feedback.

Next Steps:

- **Dry Run Meeting:** Monday, March 19 at 11:00 AM – focus on integration testing and identifying technical issues early.
- **Staging Environment Stability Check:** DevOps team to provide status by end of day today (Tuesday).
- **Payment Integration Completion Target:** Bob aims for early completion Friday; Carol aligns frontend work accordingly.

Alice Chen Closing Statement:

"Great work

Send a message to the model...

LM Studio 0.3.32 (Build 2)   User Power User Developer   INPUT TOKENS: 0   CONTEXT IS 10.3% FULL   RAM: 2.10 GB

1:08 PM
11/25/2025

No limits, no compromise

Cloud level accuracy
Task tuned models

No fees or restrictions
Run long, rich tasks on device

Incredibly fast
Engineered with AMD for efficiency

Free download for AMD Ryzen™ AI processors

Personal AI Finance Manager

Secure, on device financial support customized for you

Easy-to-use agents

No subscription fees

Secure and privacy-focused

Free download for
AMD Ryzen™ AI processors

Generate

New chat

Workflows & Apps

Recent

Personal Finance Goals

Social Media Caption Ideas

Global Headlines Briefing

Daily Health Journal

Budget Tracker Help

Brandon Grant

Skip

$

Your personal finance manager

Let's create a personalized financial plan and investment strategy.
Your data is encrypted and never shared.

What are your financial goals?

Retirement Buy a home Education Travel Emergency fund

Build wealth Financial freedom

What's your investment risk tolerance?

Conservative   Moderate   Aggressive

What types of investments interest you?

| Stocks | Bonds | Index Funds | Real Estate |
| Individual equities | Fixed income | Diversified funds | REITs and property |

How much can you invest monthly?

Personal AI coach

One-click fitness and nutrition guidance, running locally on AMD Ryzen™ AI

Iterate.ai

Easy-to-use agents

No subscription fees

Secure and Privacy-focused

Free download for AMD Ryzen™ AI processors

AMD
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Simple AI Powered Automation

Easy-to-build agents to super charge productivity

AMD Ryzen™ AI Agent Framework

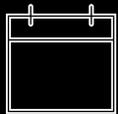| MCP APIs	n8n / GAIA	Lemonade SDK
Control App features via MCP	Agentic framework and app integration	LLM deployment framework

Example Workflow
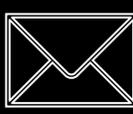Doctor's Back Office

Complexity reduction and optimization

appointment   **patient**   **billing**

Benefits: Reduce paperwork, reduce errors,
and keep patient data private

AI workflows
can save up to
1000s of hours
per year

https://n8n.io/

AMD
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AMD ROCm

A unified, seamless software stack from cloud to personal devices

AMD together we advance_

Delivering continous performance uplift

for AMD Ryzen™ AI and Radeon™ products

Available now in *Comfy*

Performance uplift in
AMD ROCm 7.1 vs
AMD ROCm 6.4
(up to)

5x

SDXL

2.6x FASTER

ROCm 7.1.1 vs ROCm 6.4

Ryzen AI Max
Processors

Flux S

5.2x FASTER

ROCm 7.1.1 vs ROCm 6.4

Ryzen AI Max
Processors

Wan 14b

5.4x FASTER

ROCm 7.1.1 vs ROCm 6.4

Radeon AI PRO R9700
GPUs

All scores are up to. See endnote: SHO-40 and RPW-507

AMD
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AMD Ryzen™ AI 400 Series Processors

Built to power your potential

Performance For All Your Needs

1.3x	1.7x	1.1x
Faster Multitasking	Faster Content Creation	Faster Gaming

Multi-Day Mobility

24	1.7x
Hours Battery Life	Higher Unplugged Productivity

Cinebench nT

Next-Gen AI Experiences

1.25x	Hours	50+
More NPU TOPS*	Saved with AI workloads	ISVs optimized for Ryzen AI

AMD Ryzen™ AI 9 HX 470 (28W) vs. Intel Core Ultra 9 288V (30W)

All scores are up to. Endnotes GPT-5, GPT-6, GPT-9, GPT-10, GPT-11, GPT-12.
*on AMD Ryzen™ AI 9 HX 475 processors

AMD
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AMD ◣

General Disclaimers & Endnotes

GD-150: Boost Clock Frequency is the maximum frequency achievable on the CPU running a bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in applications and workloads. GD-150.

GD-151: Boost Clock Frequency is the maximum frequency achievable on the Radeon GPU running a bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in applications and workloads. GD-151.

GD-187b: AMD FidelityFX Super Resolution (FSR) versions 1, 2, 3, and 4 are available on select games which require game developer integration and are supported on select AMD products. AMD does not provide technical or warranty support for AMD FidelityFX Super Resolution enablement on other vendors' graphics cards. See https://www.amd.com/en/technologies/fidelityfx-super-resolution for additional information. GD-187b.

GD-243: 2 Trillions of Operations per Second (TOPS) for an AMD Ryzen processor is the maximum number of operations per second that can be executed in an optimal scenario and may not be typical. TOPS may vary based on several factors, including the specific system configuration, AI model, and software version. GD-243.

DITL-12: Based on the Signal65 whitepaper entitled "Measuring Modern AI PCs: Accelerating the Modern Office Worker" (https://signal65.com/research/measuring-modern-ai-pcs-accelerating-the-modern-office-worker/). Testing by Signal65 (3rd party) was done as of September 2025 by measuring drafting and reviewing a document with and without the assistance of a corresponding AI application (LM Studio) and was done on a Lenovo ThinkPad T14s Gen 6 with an AMD Ryzen™ AI 7 PRO 360 processor @22W, Radeon™ 880M graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11 Pro. An "AI-enabled PC" is defined as a PC that can run AI applications and has at least 40 TOPS. System manufactures may vary configurations yielding different results. DITL-12.

DITL-13: Based on the Principled Technologies whitepaper entitled "AMD Ryzen AI tech expert performance" (https://www.principledtechnologies.com/AMD/Ryzen-AI-tech-expert-performance-1025.pdf). Testing by Principled Technologies (3rd party) was done as of September 2025 by measuring building a predefined application with and without the assistance of a corresponding AI application (VS Code LLM hosted by Lemonade Server) and was done on an HP Elitebook X G1a 14 AI with an AMD Ryzen™ AI 9 HX PRO 375 processor, Radeon™ 890M graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11 Pro. An "AI-enabled PC" is defined as a PC that can run AI applications and has at least 40 TOPS. System manufactures may vary configurations yielding different results. DITL-13.

DITL-14: Testing by HotTech (3rd party) was done as of Oct 2025 2025 by measuring image creation for a social post with and without the assistance of a corresponding AI application (Cyberlink Promeo) and was done on an on a current gen AI PC: Asus Vivobook S 16 with an AMD Ryzen AI 9 HX 370 processor, out of the box settings, Radeon™ 890M integrated graphics (driver Adrenaline 25.10.1) - 16GB (16GB System), 32GB LPDDR5X-7500MHz RAM, 1TB PCie Gen 4 SSD, 50 TOPS NPU, Windows 11 Home 24H2, Balanced Mode Power Plan, and a Non-AI PC: Lenovo Yoga Slim 7 ProX with an AMD Ryzen 7 6800HS processor, AMD Radeon 680M integrated graphics (driver Adrenaline 25.10.1) - 4GB (12 GB system), 16GB LPDDR5-6400MHz RAM, 500GB SSD, Windows 11 Home 24H2, Balanced Mode Power Plan, Intelligent Cooling (default). An "AI-enabled PC" is defined as a PC that can run AI applications and has at least 40 TOPS. System manufactures may vary configurations yielding different results. DITL-14.

AMD

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General Disclaimers & Endnotes

GPT-5: Testing done as of November 2025 by AMD to measure battery life in video playback and web browsing. Configuration for AMD Ryzen AI 9 HX 470 processor: ASUS Zenbook S16, Radeon™ 890M integrated graphics, 32GB 8533MHz memory. Configuration for AMD Ryzen AI 7 450 processor: ASUS Zenbook S14, Radeon™ 860M integrated graphics, 32GB 8533MHz memory. Configuration for AMD Ryzen AI 7 445 processor: ASUS Zenbook S14, Radeon™ 840M integrated graphics, 16GB 8000MHz memory. All testing done using graphics driver 25.20.32-251114n and running Windows 11 Pro in "Power Efficiency" power mode. System manufacturers may vary configurations, yielding different results. GPT-5.

GPT-6: Based on AMD product specifications and competitive product information available as of December 2025. AMD Ryzen™ AI 400 Series processors' NPU offer up to 60 peak TOPS. GPT-6.

GPT-7: Testing done as of December 2025 by AMD to measure Neural Processing Unit (NPU) performance by running Procyon AI Vision (v.1.10.516) across mobilenetv3, resnet50, inceptionv4, deeplabv3, yolov3, esrgan on "Best Performance" power mode. Configuration for AMD Ryzen™ AI 9 HX 470 processor: HP Elitebook X G2a (14in), Radeon™ 890M integrated graphics, Graphics Driver 32.0.22001.10002, 127GB 8000 MT/s memory, Windows 11 Pro. Configuration for Intel Core Ultra 9 288V processor: ASUS Zenbook S14, Arc 140V integrated graphics, Graphics driver 32.0.101.8132, 32GB LPDDR5x-8533 memory, Windows 11 Pro. System manufacturers may vary configurations, yielding different results. GPT-7.

GPT-9: Testing done as of November 2025 by AMD to measure Cinebench 2024 nT performance while unplugged on Balanced power mode. Configuration for AMD Ryzen AI 9 HX 470 processor: ASUS Zenbook S16, Radeon™ 890M integrated graphics (driver 25.20.32-251114n), 32GB 8533MHz memory, Windows 11 Pro. Configuration for Intel Core Ultra 9 288V processor: HP OmniBook Ultra Flip, Arc 140V integrated graphics (driver 32.0.101.8136), 32GB 8533MHz memory, Windows 11 Home. System manufacturers may vary configurations, yielding different results. GPT-9.

GPT-10: Testing done as of December 2025 by AMD to measure content creation performance in the following applications and benchmarks on "Best Performance" power mode: Blender, Cinebench nT, Handbrake, PugetBench for Photoshop, PugetBench for DaVinci Resolve Studio, 7zip. Configuration for AMD Ryzen™ AI 9 HX 470 processor: ASUS Zenbook S16, Radeon™ 890M integrated graphics, Graphics Driver 25.20.32-251114n, 32GB LPDDR5x-8533 memory, Windows 11 Pro. Configuration for Intel Core Ultra 9 288V processor: HP OmniBook Ultra Flip, Arc 140V integrated graphics, Graphics driver 32.0.101.7026, 32GB LPDDR5x-8533 memory, Windows 11 Home. System manufacturers may vary configurations, yielding different results. GPT-10.

GPT-11: Testing done as of December 2025 by AMD to measure multitasking performance by running Procyon Office Suite with Microsoft Teams on "Best Performance" power mode. Configuration for AMD Ryzen™ AI 9 HX 470 processor: ASUS Zenbook S16, Radeon™ 890M integrated graphics, Graphics Driver 25.20.32-251114n, 32GB LPDDR5x-8533 memory, Windows 11 Pro. Configuration for Intel Core Ultra 9 288V processor: HP OmniBook Ultra Flip, Arc 140V integrated graphics, Graphics driver 32.0.101.7026, 32GB LPDDR5x-8533 memory, Windows 11 Home. System manufacturers may vary configurations, yielding different results. GPT-11.

GPT-12: Testing done as of December 2025 by AMD to measure gaming performance in the following games at 1080p low settings on "Best Performance" power mode: Black Myth Wukong, Borderlands 3, Counter-Strike 2, Cyberpunk 2077, F1 25, Monster Hunter Wilds, Sid Meier's Civilization V. Configuration for AMD Ryzen™ AI 9 HX 470 processor: ASUS Zenbook S16, Radeon™ 890M integrated graphics, Graphics Driver 25.20.32-251114n, 32GB LPDDR5x-8533 memory, Windows 11 Pro. Configuration for Intel Core Ultra 9 288V processor: HP OmniBook Ultra Flip, Arc 140V integrated graphics, Graphics driver 32.0.101.7026, 32GB LPDDR5x-8533 memory, Windows 11 Home. System manufacturers may vary configurations, yielding different results. GPT-12.

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General Disclaimers & Endnotes

GPT-13: Testing done as of November 2025 by AMD to measure gaming performance in the following games at 1080p low settings with AMD FSR "Quality" mode and frame generation turned on and off: Assassin's Creed Shadows, Cyberpunk 2077, Marvel Rivals, Marvel's Spider-Man Remastered, Monster Hunter Wilds, Starfield, Warhammer 40,000: Space Marine 2. Configuration for AMD Ryzen™ AI 9 HX 470 processor (28W): AMD reference board, Radeon™ 890M integrated graphics, Graphics Driver 25.20.24-251007a, 32GB LPDDR5x-8533 memory, Windows 11 Home, Balanced power mode. System manufacturers may vary configurations, yielding different results. GPT-13.

RPW-507: Testing as of December 2025. Tests conducted using ComfyUI portable build with ROCm 6.4 integrated + AMD Software: Adrenalin™ Edition Driver 25.20.01.14 and ComfyUI portable build with ROCm 7.1.1 integrated + AMD Software: Adrenalin™ Edition Driver 25.20.01.17. All tests conducted with official templates and default settings provided by ComfyUI. AMD Radeon™ AI Pro R9700 with AMD Ryzen 9950X3D, 64GB DDR5 RAM and Windows 11 Pro 25H2. Performance may vary. RPW-507.

SHO-40: Testing as of December 2025. Tests conducted using ComfyUI portable build with ROCm 6.4 integrated + AMD Software: Adrenalin™ Edition Driver 25.20.01.14 and ComfyUI portable build with ROCm 7.1.1 integrated + AMD Software: Adrenalin™ Edition Driver 25.20.01.17. All tests conducted with official templates and default settings provided by ComfyUI. AMD Ryzen™ AI Max+ 395 processor in ASUS ROG Flow Z13 with 128GB memory and VGM set to 64GB. Performance may vary. SHO-40.

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